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DRUG & CHEMICAL MARKETS

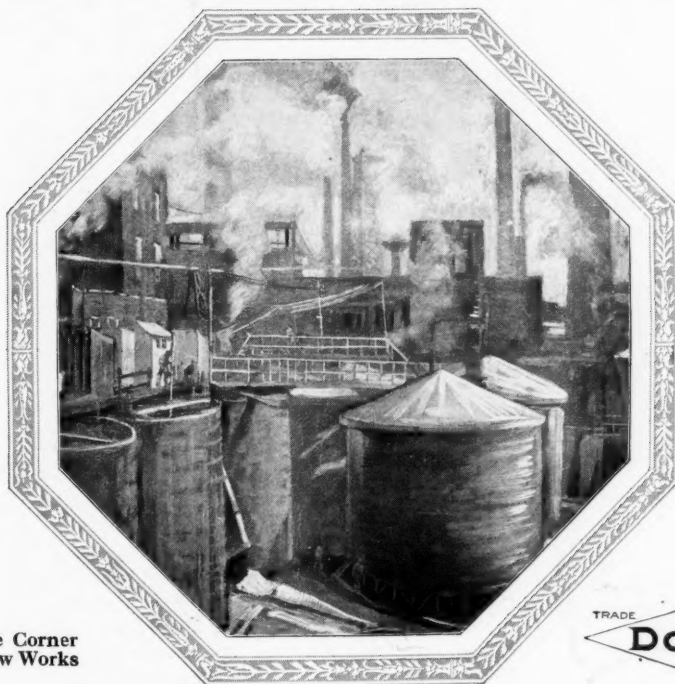
Established 1914

A Weekly Business Paper and Prices Current on
Chemicals, Drugs, Colors, and Aromatics

VOLUME XIV

NEW YORK, JUNE 4, 1924

NUMBER 284



An Active Corner
of the Dow Works



Ingredients of Industrial Activity

Dow chemicals have been aptly described by one of our customers as ingredients of industrial activity. We like to think of them that way for the character of a good product is often determined by the quality of ingredients used.

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Branch Sales Offices: 90 West Street, New York City -:- -:- Second and Madison Streets, Saint Louis

In This Issue { *Producers Discuss Distributors*
Analysis of Dyes by Purchasers

Coumarin Monsanto

THAT delicacy—that characteristic odor—that true flavor so much desired in aromatics and flavors, is only obtained by long plant experience, where manufacturing details have been perfected.

COUMARIN-MONSANTO
VANILLIN-MONSANTO
have these qualities.

Their aroma and true flavor invariably command the preference of the discriminating consumer.

May we receive your inquiries covering your immediate or future requirements of Coumarin • Vanillin • Methyl Salicylate

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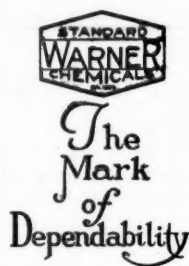
NEW YORK

CHICAGO

MONSANTO



Carbon Tetrachloride



PHOSPHORUS OXYCHLORIDE
CARBON TETRACHLORIDE
SODIUM PHOSPHATE
ACETIC ANHYDRIDE
ALUMINUM HYDRATE
SULPHUR CHLORIDE
PHOSPHORIC ACID
CAUSTIC SODA

To make the assurance of purity and uniformity doubly sure, we redistill Warner's Carbon Tetrachloride. The result is a water white product we guarantee to be free from acid and sulphur. Buyers can depend upon always receiving the highest grade (99.7% pure) when they order our brand.

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The Week in Brief

News

Offers of arsenic by Japan, which have become more active recently, are said to be the cause of declining prices in England and the United States.

German dye manufacturers have resumed negotiations with British Dyestuff Corp. for an agreement on division of the market for colors in England and the colonies.

Indications of a break in the business recession are shown in the Federal Reserve Board's review for May.

Nitrate production in Chile continues high.

Dr. L. A. Pratt, of Merrimac Chemical Co., tells purchasing agents for mills using dyes that samples should be analyzed in their own laboratories.

Markets

Naphthalene weak owing to large production and small demand. Phenol is holding firm on small available stocks. Pyridine lower on quiet demand and improved supplies. Benzol situation firm. Intermediates and dyes quiet.

Makers reduce tin salt price schedule for June following lower market in tin. Barium products easier with chloride and carbonate lower. Oxalic acid again weak. Prussiates continue weak. Export movement in alkalis reported.

Fine chemicals appear to be in small demand from consumers with tendency for accumulation of stocks in resale hands. Imported bromides active.

Essential oils are generally quiet with declines registered in oils peppermint, lemon, sandalwood, and wormseed. Makers have cut vanillin and coumarin in competition with resale lots.

Crude drugs show little change over the week. Some spot scarcities have developed recently. Weakness in the market, as a whole, still predominates.

Lower quotations are in effect for Chinawood oil on spot and future shipments as demand lacks importance. Stearic acid and red oil eases. Market generally has been quiet and inactive during the week.

MATHIESON

Liquid Chlorine-Caustic Soda-Soda Ash
Bleaching Powder-Anhydrous Ammonia
Modified Virginia Soda-Bicarbonate of Soda

Liquid Chlorine and the Mathieson System is Easily Adapted to Any Bleach Equipment

SO adaptable is the Mathieson System and its two basic principles, that any existing bleaching powder equipment may be readily converted to the use of liquid chlorine. These two principles are (1) the use of predetermined, accurately weighed quantities of all materials, and (2) the utilization of the refrigerative effect of the vaporizing liquid chlorine to counteract the heat of reaction of the chlorine with the lime. Overchlorination is avoided, absolutely uniform liquors are produced, and the temperature of the solution is kept within safe limits at all times.

The second principle is taken care of by an expansion coil installed in the chlorinating tank, which is immersed in the liquor and in which the liquid chlorine vaporizes. The accurately weighed unit of liquid chlorine is the Mathieson One-Ton Container, or in some small installations, the 150-lb. cylinder. The Mathieson Multi-Unit Tank Car, carrying fifteen of these one-ton containers, is an important part of the Batch Method for producing bleach liquors from liquid chlorine.

In adapting the Batch Method to existing bleach plants, the first consideration is the available tank capacity. Where individual tanks have not the required capacity to operate on the unit basis with one ton of liquid chlorine, two or more tanks have been connected together and the piping so arranged that the system operates as a unit. In such cases the expansion coil is required in only one tank, although the liquor is circulated through all the tanks in the system.

Proper control of temperature conditions permits a wide range of tank capacity while the ton container remains the standard unit of liquid chlorine. The safety limit of the finished liquor is 100°F., and as there is a definite rise in temperature in the liquor for each unit weight of chlorine absorbed, the initial temperature of the solution must be controlled accordingly. For example, with a tank capacity as low as 2400 gals. and a chlorine unit of one ton, the initial temperature must be not more than 50°F., and the concentration of the liquor produced will be 80 grams per liter of chlorine. On the other hand, with a tank capacity of 9600 gals. and a chlorine unit of one ton, the initial temperature may safely be as high as 85°F. and the concentration of the liquor will be 25 grams per liter.

Let us send you a reprint of "Bleach Liquors From Liquid Chlorine," by J. H. MacMahon, our Technical Representative, which describes the Batch Method in detail.

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Acetone
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(All formulas)

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Hexamethylene Tetramine

Magnesia

Para Formaldehyde

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342 MADISON AVE.

NEW YORK CITY

DRUG & CHEMICAL MARKETS

VOLUME XIV

NEW YORK, JUNE 4, 1924

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SCHIMMEL'S TEST FOR CITRONELLA

About a year ago, the American market was flooded with Ceylon citronella oil which contained anywhere from ten to forty per cent of alcohol. A shortage of oil and high prices made sophistication in primary markets very profitable, and shipments became worse and worse until the Department of Agriculture stepped in and called a halt. Most of the adulterated oil could and did pass the ordinary recognized trade test for purity, the Schimmel Test. Because the oil adulterated with alcohol or less than ten per cent of kerosene passed the Schimmel Test, two grades of citronella came to be quoted and dealt in by the trade, i.e., estate oil, or so-called pure oil, and ordinary Schimmel Test oil.

Since the cause of the controversy last year has mostly passed over the horizon, a sharp difference in the quality of citronella reaching the American market no longer exists. This does not mean, however, that all oil which comes in, is pure, for some of the highest authorities state that a shipment of pure citronella has never reached America. What it does mean is that the quality range has been brought within much narrower limits, and buyers can enter the market to-day with a fair degree of protection against gross adulteration.

No doubt a shadow was cast over the Schimmel Test in the minds of some buyers by the citronella difficulties of 1923. This has no basis on fact, however, for the Schimmel Test was never intended to be more than a quick approximation of purity. It was aimed primarily for use as a handy rule-of-thumb for the trade, and in no sense as the final chemical proof that the oil was one hundred per cent pure. For the ordinary uses to which citronella is put, the Schimmel Test answers the buyer's purpose with the exception of alcohol detection. Like the wide misuse of dyestuffs during the war, there is no earthly reason why Schimmel's Test should be condemned for failing to do something which its originator never intended it should do.

STRIKES AFFECT CODLIVER OIL PRICES

Unless Norwegian codliver oil interests are able to hold their stocks, large quantities of oil are likely to be thrown on the market and prices may drop. Conditions have been so bad in the Norwegian industries, owing to strikes which have lasted for two months or more, that money is very tight and it has been difficult to finance the fisheries. However, the probability is that private capital will seize the opportunity to get high rates of interest if the banks hesitate, and the fisheries then will follow the normal course of previous

years. In that case it may be possible to hold prices up until the bulk of the catch has been marketed.

The lessened production in all industries, except the manufacture of matches and fish canning, is reflected in the foreign trade returns. Norway's exports for February were 76.8 million crowns; in March only 69 million crowns. In the same period the imports increased from 100 million crowns to 141 million. The country's adverse trade balance for the first quarter of 1924 is estimated by the Norwegian statistical office at approximately 122 million crowns.

The condition is attributed to the continued labor disputes which the Government Arbitrator has been unable to settle. Domestic business as well as foreign trade has been seriously affected. Stocks of many raw materials and manufactured goods have become depleted. Deliveries in the paper and pulp industry have been seriously delayed. Considerable money has been absorbed in loans, particularly a loan of fifty million crowns by the Government, a loan of seven million crowns by the city of Bergen, and forty-four million crowns by the municipal government of Christiania, and the tightness of the money market now threatens to handicap the marketing of codliver oil.

IN THE FRONT-LINE TRENCHES

It is a favorable sign that makers of chemicals hold similar views on the sales problems of less-than-carlot business to those expressed in our recent issues by the local distributors. The manufacturer and his sales agent certainly see the problem from different angles, and the expressions of opinion from leading makers, published on another page, are particularly interesting when we note how well they agree in certain fundamentals with the views of leading distributors.

Both groups concerned directly with 1/c/1 sales agree that the future development of a spot delivery service of small lots of chemicals to consumers will be along the lines of sales agencies handling standardized, branded chemicals. These have found this to be the solution of evils that both trace back to unsatisfactory merchandizing methods. Both recognize their interlocking self-interest, and each remembers not only the other fellow's obligations, but also admits his own.

Very tangible evidence that these views are something more substantial than friendly platitudes, useful for publicity purposes, but of little practical value, will be found in the new advertising department—"Local Spot Stocks"—which will be found for the first time in this issue between Imports and Wants & Offers. Here is a new kind of chemical

advertising service, designed with the particular purpose of making it practical for the local seller of chemical and drug products effectively and economically to use the pages of a business publication with a national circulation. But "Spot Stocks" is more than this, and both principals and agents have been quick to recognize its broader aspects and they have actively co-operated to take advantage of it. This new advertising department, being limited strictly to responsible firms who carry stock (manufacturers branches and brokers alike being outside its scope) offers such distributors a rare opportunity to identify themselves nationally with the industry and to tie their sales efforts up with the national advertising done by the firms whose goods they are distributing. The manufacturers, on their part, have here a practical way of assisting their representatives and of further emphasizing their brands and trade marks.

It is these broader aspects of our "Spot Stocks" Department which inspired its inception. Local distributors are after all the shock troops who go out of the front line trenches in the battle for business. They need the support of manufacturers' heavy guns and the Intelligence Service of their trade publication.

WHAT'S THE MATTER WITH BUSINESS?

Pessimists shook their heads when the Federal Reserve Board announced that wholesale prices had reached the lowest point touched since May, 1922,



—Copyright, Birmingham News

but low prices have a distinct advantage in many lines of manufacturing by discouraging the importation of foreign goods which would come into competition with American products. When prices are high in the United States imports increase because the temptation to test the market is irresistible, especially with chemicals and pharmaceuticals, known in this country, which are manufactured abroad at small cost owing to cheap labor. The result is a flood of imports, and the American manufacturer, who is producing under high costs for labor and material, is unable to cut his prices to meet the competition.

Labor seems to be the chief question of a disturbing nature, because with declining wholesale prices wages are advancing. The situation is incongruous. If the manufacturer is to keep up production he must be guaranteed a reasonable profit, and his costs cannot be increased in the face of a falling market for any length of time without actual loss. The only alternative is to cut wages or close the factory. When thousands of men are thrown out of work their buying power practically ceases and other industries begin to curtail and the so-called depression spreads over the country. Average weekly earnings of wage workers in chemicals in April were \$28.31 compared with \$26.90 a year ago; in drugs \$27.52 against \$25.87 last year; in dyes \$27.92 compared with \$25.74 in April, 1923, according to statistics gathered by the New York State Department of Labor.

Many factors enter into the unsatisfactory business situation. The manager of a wellknown industry in New Jersey says that the failure of Congress to pass the Mellon tax reduction measure, the passing of the bonus bill over the President's veto, and the investigations in Washington have produced the bad conditions. These phases of the situation soon will pass. A leading bank attributes the decline in industrial activity to the "intense stimulation" which some industries displayed, and declares that it was only a question of time before some slowing up would inevitably begin. The demand for necessities for a hundred million people, however, must soon be felt, and low stocks must be replenished. In some quarters an improvement is reported, this week. The usual Summer dullness may check any advance in prices, but by Fall this demand undoubtedly will be felt in all basic industries and will spread soon to general business.

Some anti-administration papers that are looking constantly for weak spots in the tariff seized upon the advance in duty on sodium nitrite and declared that the increase in the rate would advance the cost of fertilizers to the farmers. The cost of fertilizers will not be affected because sodium nitrite is not used in fertilizers. Even the excuse that the writers mistook nitrite for nitrate is not a good one, because nitrate is on the Free List and could not be made dutiable under the flexible provisions of the Tariff.

Herbert Hoover, Secretary of Commerce, is requesting manufacturers to buy coal during June and July to avoid shipments during the peak period in the Fall when household supplies are purchased.

The Producers' Ideas of Distributors

The Function of the Local Chemical Distributor as Seen by the Manufacturer

What is the chemical distributor's service worth to the manufacturer? Can the manufacturer distribute direct more efficiently, or is the local dealer the best medium to meet the problem of less carlot distribution?

Leaders in chemical distribution all over the country have previously given their views on this subject to DRUG & CHEMICAL MARKETS. They stated uniformly that they believed the reputable local dealer to be the only practicable man to give the innumerable less carlot

chemical consumers efficient distribution service. Few manufacturers have a broad enough line to warrant sufficient sales branches to completely cover all consuming areas, they claimed, and the dealer with a diversified group of products continues to be the time-proven solution.

A few manufacturers tell what they think of the independent local distributor, what they believe his function to be, and their attitude toward the problem of less carlot distribution.

G. Lee Camp, Dow Chemical Co., Midland, Mich:—
"The local distributor is a highly necessary aid to the chemical sales department in sections of the country where less than carload distribution is necessary and where the manufacturer does not have his own office. While it is always possible for the manufacturer to carry stocks in various places, the local distributor supplies not only the medium of stocks but also the personal service necessary to move them and usually reaches a class of trade that is difficult for the manufacturer to solicit properly from his office. This service has always been of great help to us and continues to be at this time.

A local distributor must necessarily keep the welfare of the manufacturer in mind, as well as that of himself and his trade, and only in instances where he has failed to do this have we anything but praise for the so-called local distributor. Service built up by a local distributor giving each one of these phases of the subject proper consideration cannot help but be permanent and of real value to all parties concerned."

Walter Kochs, Victor Chemical Works, Chicago:—
"I believe that a conscientious and intelligent distributor plays a very important role in the chemical industry. He usually occupies a position of prominence both in a business and social way in the community in which he lives and often possesses an influence with the trade which is difficult for a foreign representative to obtain. This with his warehouses and delivering facilities and the close understanding of the requirements of the trade places him far in the best position to serve the industries of his community.

I know that some of the large chemical manufacturers have a preference for branch offices but I have often wondered whether this is due to unfortunate past experiences. Occasionally, we find distributors, unconsciously perhaps, taking the attitude of independent brokers or buyers purchasing agents and their reports as to price and market conditions cannot help being colored, in accordance with their frame of mind, thus creating an incorrect impression with the principal.

In such a case, the manufacturer loses confidence and finds it preferable to cover the field with his own selling organization. However, this does not alter the value of a right thinking and conscientious distributor who has foremost in mind the fact that he should act as a part

of the sales organization of the manufacturer he represents.

Aside from this, the question of an economical distribution must be met. Unless a manufacturer has a sufficient number of products to warrant the maintenance of branch offices, an intelligent distributor serves to distribute chemicals economically. Knowing the requirements of the trade of his community, he will carry all lines needed so that his overhead on any one item is small with the result that each product can be handled at a low cost."

J. Wrench, Industrial Chemical Co., New York:—
"I am in rather an embarrassing position in discussing the functions of a local distributor, occupying the status of manufacturer of some products, sales agents for others and acting as jobbers or distributors for still other products. Thus I go one better than Dr. Jekyll and Mr. Hyde and feel it is beyond my poor ability to write on such a subject without considerable conflict of mind that must detract from the value of any contribution I may make.

I, however, seize the opportunity to emphasize to you the biggest bugbear we have in the chemical industry today is the multitude of so-called chemical concerns, possessing little or no financial stability and very little knowledge of the industry, who are making bids and inviting offers by broadcasting methods and "dabbling" in anything that has the slightest claim to the term chemical. Through their activities, they are disturbing and upsetting markets and generally act as parasites on the industry.

One solution of this nuisance occurs to me; namely, that the responsible houses should refuse or distinctly discourage negotiations with such concerns.

These are the kind of people who are always "fishing" for distressed lots that a manufacturer may have accumulated and is anxious to liquidate and when these lots are secured, they are able to play havoc with the market. Manufacturers holding any such lots of goods should place disposition through reputable chemical houses, who would exercise better control. Such procedure would eliminate the parasites."

Edward H. Carus, Carus Chemical Co., La Salle, Ill:—
"We have noticed some of your articles on the economic position of local distributors in the chemical trade, and we agree entirely with your view, namely that the

sound basis for such middlemen is as representatives of the manufacturers.

During the early part of the war, a considerable profit was made by chemical dealers on the increase in the value of various chemicals. Since that time whenever there is a fear of a possible shortage, all dealers in the country are anxious to enter large orders beyond the producing capacity of the country. This, of course, creates a temporary rise in price and in a few months production has to be increased to take care of the orders. Suddenly, they all find out that there is an excess and the products cannot be sold at any price.

Consumers will buy when they expect a shortage, but the combined effect of consumers and dealers purchasing at such times, makes the fluctuations very much worse, especially as the dealers usually buy far too much and later force the market down to unload quickly. Under the circumstances, the manufacturers cannot be blamed for going after the consumers directly. Your suggestion is the only solution we can see, as it amounts to a real cooperation between distributor and manufacturer.

You will notice that our opinion is that the speculative middlemen, as they exist in the chemical trade, are more of a nuisance than a benefit in the economic system. Many texts on economics justify the speculator as a man with foresight, watching world conditions, as an equalizer between oversupply and shortages. The speculative element in the chemical trade has, however, not taken the trouble to keep posted as to actual production, supply and demand; and the result has been that the speculators have lost and it is to be hoped that they will be more careful in the future. Instead of buying when there is an excess and selling during a shortage, most middlemen have followed the opposite course. Instead of evening up conditions, they have accentuated peaks and valleys.

We appreciate your suggestions and they seem to us to be in the right direction. If followed they should bring a general improvement in the prosperity of the chemical industries."

R. H. Eagles, J. M. Huber, Inc., New York:—"Your article 'Why is the Local Distributor?' has been read with much interest. It is to be hoped that it will have the careful consideration of the jobbing industry, which is now on probation before manufacturers and consumers.

The distinction must be made between speculative jobbers, and reliable manufacturers representatives. The former is a serious menace to both manufacturer and consumer, the latter is an economical distribution agency. Manufacturer and consumer are both vitally interested in stabilizing price and quality of raw materials. Too many jobbers are unfortunately interested in neither—but only the gross sales of the day. The speculative jobber influence is apparent in all meteoric rises and declines—due to his usual selling principle of price alone.

Having no ties in the shape of plant investment, registered brands, and quality reputations, a turbulent market means little to the average jobber. Can he withstand the temptation to speculate for temporary big profits during boom time or is he willing to follow the manufacturer's policy of building on quality for the long pull and stable prices at a small legitimate profit? His value as an economic distribution factor is directly dependent upon his attitude towards this question."

John W. Boyer, Mathieson Alkali Works, New York:—"The remarkable part of all the articles you have been publishing on the 'Local Distributor' problem is that every statement of the case is made from a defensive attitude and is an effort to justify the existence of local

distribution, as though that justification was being severely or effectively attacked.

"I do not believe defense of their existence is necessary and do believe that what is more important is defense of their failure to understand and correct the various conditions which apply to their game in the light of the constructive criticism that has been offered them from all directions. These criticisms spring from the fact that all manufacturers have been giving close attention to their relations with consumers.

"To repeat or enumerate these familiar criticisms we have;—failure to see the wisdom and adopt the policy of 'open prices openly arrived at;' failure to see the dangers in permitting price on one chemical to sell another especially if the price modification is made on a basic chemical; failure to understand many details of their principal's policies; a general failure to prevent demoralization of their local markets.

"I don't believe any destructive effort against the local distributor of chemicals is sound but the criticisms are fair and may be expected to continue with greater pressure for their correction as time goes on without progress or improvement of such conditions."

CHILEAN NITRATE SALES INCREASE

Sales of nitrate in Chile during March for delivery this nitrate year totaled 196,464 metric tons, an increase of 84 tons compared with the same date last year, according to Consul General C. F. Deichman, Valparaiso. Exports during March totaled 151,402 metric tons, a decrease of 34,988 tons as compared with February. Production and exports for the first quarter of each of the last four years are as follows:

	Production Metric tons	Exports Metric tons
1921	501,226	521,904
1922	206,674	123,648
1923	405,303	707,080
1924	591,875	668,689

Attorney General Stone has brought suit against Charleston Industrial Corporation of Nitro, W. Va., to set aside a series of supplemental contracts entered into between the Government and the corporation, whereby an original contract of Dec. 5, 1919, for the sale of the Government powder plant at Nitro for \$8,500,000 was modified to reduce the price to \$5,710,070.

Stock of American Metals Corporation, New York, was sold at \$167 per share in 1917, amounting to \$6,400,000, by the Alien Property Custodian, according to the testimony of Isadore J. Kresel, counsel for the Chemical Foundation, before the Senate committee, which is investigating the Department of Justice.

May issue of "Dyestuffs" contains a report of the domestic dyestuffs situation made to the Silk Association of America, articles on mold and mildew, carbonizing piece-goods, regulating dye temperature, history of leather, and causes of deterioration of color in pulp and paper.

Tom Lewis, of the Inca Mill, Lima, Peru, arrived in New York June 2 aboard the Grace Line steamer "Santa Anna" from South America. He will be in New York until June 7 at which time he will sail for his home in England.

William Hosken, Viotor & Hosken, New York, who left for Japan last Christmas Day, landed at San Francisco on May 30 en route home. Mr. Hosken will arrive in New York late this week or early next.

Trade Notes and Personals

W. A. Harshaw, Harshaw, Fuller & Goodwin, has returned to the home office of the company in Cleveland after a short business trip in New York.

R. M. Keating, secretary, Baugh Chemical Co., Baltimore, Md., was in New York last week on business, stopping at the Hotel Pennsylvania.

A permit has been issued for the erection of a new unit at the plant of the Pennsylvania Salt Manufacturing Co., Philadelphia, to cost \$40,000.

Dr. S. W. Russell, of the main office of the Mallinckrodt Chemical Works, St. Louis, was at the New York office of the company, last week.

The Chemical Division of the Department of Commerce probably will send an expert to the Latin American countries in the near future to look into possible markets for drugs and chemicals.

J. V. E. Dickson, chemist of the Research Department of The Barrett Company, New York, has resigned to accept a position with Weiss and Downs, New York, chemical engineers and consultants.

Wamesit Chemical Co., Tewksbury, Mass., manufacturers of lactic acid and other leather chemicals are planning the replacement of the portion of their plant which was recently damaged by fire.

Adolph C. Schwarz of the sales department of Roessler & Hasslacher Chemical Co., New York, is receiving congratulations on the arrival of a baby girl in his family.

Ebeco Chemical Co. is being consolidated with Benzol Prod. Co., 11-15 Margaretta st., Newark, N. J., which is manufacturing benzoic acid, benzaldehyde, benzoates, cinchophen, etc.

The New York Section of the American Chemical Society will be addressed on Friday evening, June 6, at Rumford Hall, by Prof. R. R. Renshaw, of New York University on "How Neurotic Drugs Act."

Stauffer Chemical Co., Borax Union, Inc., and Stauffer Chemical Co. of Texas, have moved their Chicago offices to 79 W. Monroe st., the building of the Chicago Trust Co. Edgar R. Adler is in charge.

John F. Kehoe, retired President of Lister Agricultural Chemical Co., with which he had been connected for fifty-six years, died at St. Michael's Hospital in Newark on Tuesday night, May 27. He had been ill for about two years.

Victor Blagden, of Victor Blagden & Co., London, and president of the British Chemical and Dyestuff Traders' Association, is expected in New York about the middle of the month. While in this country, Mr. Blagden will make headquarters with Henry Peabody & Co., American agents for the English company.

The Manufacturing Chemists' Association of the United States held its annual meeting June 4 at the Whitehall Club, 17 Battery Place, New York. C. C. Concannon, chief of the chemical division, Department of Foreign and Domestic Commerce, and C. E. Herring, U. S. Commercial Attache to Germany, were the principal speakers.

ACETATE OF LIME SHIPMENTS INCREASED 1,500 TONS DURING APRIL

Up From Nine to Twelve Million Pounds in April—
Output Million and Half Less—Methanol Production
Down 67,759 Gals. in April—Shipments 15,492 Less

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 2—Shipments of acetate of lime increased about 1,500 tons in April over March, from nine to twelve million pounds, probably induced by bigger buying at the reduced prices. At the same time, output was cut a million and half pounds. Stocks at end of April were thirty million pounds, as against twelve million a year ago, and thirty-two million at the end of Mar., 1924. This marks the first reduction in stocks in a year.

Methanol production in April was down 67,759 gals. from March figures, totals being April, 673,746, and March, 741,505. Shipments were also less, down from 617,949 to 602,457 gals., amounting to 15,492 smaller sale according to the figures of the Department of Commerce in its monthly statistical survey of the wood chemical industry. Shipments in April, 1923, were 684,261 gals., and production was 713,643. Stocks at end of April, 1924, were 2,656,211 gals. against 2,194,789 at the same time in 1923. Lessened production of all wood chemicals and a tendency of stocks to grow smaller, is noted in the Commerce Department figures from the manufacturers.

CHEMICAL EMPLOYMENT LESS IN APRIL

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 2.—The Bureau of Labor Statistics, Department of Labor, has just announced chemical employment figures for March and April. The Bureau received replies from 91 chemical plants which showed their employment in March to have been 18,954, decreasing slightly in April to 18,665, a decrease of 1.5 per cent. The payrolls in these establishments also decreased from \$509,991 in March to \$501,200 in April, a decrease of 1.7 per cent.

Replies were also received by the bureau from 111 fertilizer plants which showed their employment in March to have been 11,461 decreasing in April to 10,723, a decrease of 6.4 per cent. The payrolls in these plants also decreased from \$200,805 in March to \$195,762 in April, a decrease of 2.5 per cent.

Eighty-four chemical plants also replied to the Bureau, giving their employment in April of last year at 16,187, decreasing slightly in the same month of this year to 16,061, a decrease of 0.8 per cent. The payrolls in these same plants, on the other hand increased from \$411,727 in April of last year to \$431,532 in the same month of this year, an increase of 4.8 per cent.

The Bureau also received replies from 102 fertilizer plants who gave their employment in April of last year at 9,780, increasing in April of this year to 9,973, an increase of 2 per cent. The payrolls in these identical plants also increased from \$177,779 in April of last year to \$183,457 in April of this year, an increase of 3.2 per cent.

The Porter bill, which prohibits the importation of crude opium for the manufacture of heroin, has been reported favorably without amendment by the Senate Committee on Finance. An appropriation by Congress of \$165,000 to distribute educational pamphlets on the drug evil throughout the country, was proposed, recently, by Captain R. P. Hobson, president of the International Narcotic Educational Association, in an address before Congress.

OFFER CHEMICAL RESEARCH FELLOWSHIPS

Graduate fellowships in mining, metallurgical and chemical research are offered by various institutions in co-operation with the Bureau of Mines, Department of the Interior. The purpose of these fellowships is to undertake the solution of various problems being studied by the Bureau of Mines that are of especial importance to the regions in which the institutions of learning are located. They afford opportunities for qualified young men to become experts in the fields of mining, metallurgy and chemical technology, and to prepare themselves for highly technical work in these fields. For the college year 1924-1925, the following institutions offer such fellowships: University of Alabama, Tuscaloosa, Ala.; University of Arizona, Tucson, Ariz.; Carnegie Institute of Technology, Pittsburgh; University of Missouri, Rolla, Mo.; Ohio State University, Columbus, Ohio; University of Utah, Salt Lake City, Utah; University of Washington, Seattle, Wash.; University of Idaho, Moscow, Idaho.

The value of the fellowships offered by the University of Alabama is \$540 per annum. Carnegie Institute fellowship is \$750 and the University of Missouri offers \$800 per annum.

TO TEST TRADE ASSOCIATIONS' RIGHTS

(Special to Drug & Chemical Markets)

Washington, D. C., June 4.—Attorneys representing a number of trade associations held a conference on Monday of this week with Attorney General Stone and Assistants Seymour and Fowler in connection with trade association activities.

The Attorney General is anxious to try a purely statistical case in the courts, but before making any agreement on this point the Attorney General will go over the records to see if any such case is on the docket in any of the courts. If it is not, it is believed that an agreement on a test case will be reached in the near future.

Among those attending the conference were: James A. Emery, of the National Association of Manufacturers; F. D. Dow, of the American Petroleum Institute; E. J. Greever, representing coal interests; W. G. Merritt, representing silk interests, and W. S. Bennett and F. S. Spruill both representing lumber interests.

NEW TAX BILL ALLOWS DISCOUNT

(Special to Drug & Chemical Markets)

Washington, D. C., June 4.—With the signing of the tax bill instructions are being issued on income tax payments that only one-half the 25 per cent discount allowed for the full year, should be deducted from June 15 payments.

A feature of the bill is that in case of dispute as to the amount due the taxpayer can decline to pay and the Government must sue in the courts, thus throwing the burden of proof on the Government.

MAY ATTACK TARIFF DYE SECTIONS

(Special to Drug & Chemical Markets)

Washington, D. C., June 4.—No basis can be found here for the rumors current that Representative Frear of Wisconsin, is preparing to offer an amendment to the Tariff Act as a rider to some bill during the closing hours of Congress. The rumor is to the effect that Frear is trying to eliminate the appraisal basis of coal tar chemicals in paragraphs 27 and 28 of the Tariff Act. Even if such an amendment were offered it is not considered likely that it would receive consideration.

Business Brevities

Shima Trading Co., Ltd., has moved to 150 Broadway, Room 711. Telephones Rector 1484-1485.

J. Schanzbach & Co., Inc., New York, have moved to 186 Washington st. between Dey and Fulton.

Sodium iodide is added to the water supply of Sault St. Marie, at the rate of two pounds per day for two weeks twice a year to prevent goiter.

Wholesale prices, according to the Bureau of Labor Statistics index, declined 1 per cent during April and reached the lowest point since May, 1922. Metals, foods and chemicals declined.

The Chicago Drug and Chemical Association has received applications for membership from H. G. Billmire, of Chas. Pfizer & Co.; J. H. Buhlinger, of Robt. P. Gust Co., Inc.; Geo. H. Woods, of Frank Z. Woods.

Manganese Products Co., recently organized in Alabama, has plans under way for a plant near Huntsville where the output of the company's tract of 900 acres of manganese deposits will be refined and manufactured.

Edward J. Shortt, formerly of Chas. L. Huisking, of London, has joined Old Strand Chemical and Trading Co., manufacturers of fine chemicals and alkaloids. His new connection will extend their trading to include crude drugs, American botanicals, and essential oils.

Andrew H. Irving, of Paraffine Companies, Inc., Emeryville, Cal., and president of the Emeryville Industries Association, has been appointed a member of a committee of citizens to investigate the water shortage and suggest a plan for acquiring an adequate supply for the east-bay suburbs of San Francisco.

The Insecticide and Disinfectant Manufacturers Association has notified its members of a bill introduced in the Louisiana Legislature by Representative Jeansonne, which prohibits the sale of concentrated lye by other than registered pharmacists. The bill provides for a "poison" label with antidote and a penalty of \$50 to \$100, or imprisonment for violation. The association will oppose the bill.

The Chilean Nitrate Producers' Association resolution to restrict sales of nitrate of soda and nitrate lands will not be enforced against the American producers, W. R. Grace & Co. and Du Pont Co. The issue with regard to the sale of lands is not likely to be precipitated since neither company is expected to be in the market for additional land for some time. Guggenheim interests may enter the association if they acquire lands for which negotiations are now in progress.

The National Council of American Importers & Traders, Inc., New York, has unanimously adopted a resolution to test the constitutionality of the flexible provision of the Tariff Act of 1922. Frederick B. Shipley, is president of the organization. President Shipley was authorized to appoint a committee which will have full power to engage counsel and secure an early opinion. The committee which has had the matter in charge includes William M. Friedlaender, of O. O. Friedlaender & Co.; H. L. Croll, of A. Steinhardt & Bros.; A. J. Barrett, of Veit, Son & Co.; Charles Riotte, of Stern & Stern; H. O. Lloyd, of Julius Kayser & Co.; Frank J. Nolan, of Milbank, Leaman & Co., and N. E. Franklin, former president of the association.

U. S. SELLS NO DYES IN JAVA

The principal countries which export dyes and paints to Java are Holland, Great Britain and Germany. The United States has improved its position in the paint trade, but Germany and Holland hold the lead. Although German firms, by their low prices, have obtained most of the orders during late years, they are now no longer able to supply at a price which defeats competition. Orders, therefore, are again being placed with other foreign manufacturers.

Imports of dyes have increased in volume, with the exception of synthetic indigo. The United States took no share in this trade. The total imports for 1922 and 1923 are given below:

Article	Unit	Total Imports		From United States	
		1922	1923	1922	1923
Alizarine	kilos	245,825	343,577	.....	.....
Aniline	kilos	155,468	245,673	.....	.....
Synth. Indigo	kilos	534,725	426,011	.....	.....
Varnish	litres	173,987	173,195	5,828	9,918
White zinc	kilos	570,890	646,062	50	.....
Turpentine	litres	35,790	19,159	13,053	4,658
Wet paints	kilos	932,259	1,127,268	20,880	62,592
Dry paints	kilos	731,453	1,225,892	40,476	39,447

CANADIAN INSTITUTE ELECTS OFFICERS

(Special to Drug & Chemical Markets)

Toronto, Ont., June 4—The annual convention of the Canadian Institute of Chemistry, held at Kingston, Ont., May 27-29 was attended by about 80 members. A comprehensive program of lectures and addresses was provided including the following: Dr. W. H. Hatcher of McGill University on "The Manufacture of Hydrogen Peroxide"; Dr. G. H. Gunter of Western University, London, on "Chemistry at the University of Western Ontario"; G. E. Conde, Toronto, on "The Manufacture and application of Nitrocellulose Lacquers and Enamels"; Prof. L. F. Goodwin of Queen's University, Kingston on "Nitrogen Fixation Processes"; Horace Freeman of Shawinigan Falls, Que. on "The Application of Chemistry in the Development of National Resources in Canada."

The election of officers resulted as follows: President, Dr. A. T. Charron, St. Hyacinthe, Que.; Vice-presidents, Prof. R. Harcourt, Guelph, Ont.; Prof. J. W. Shipley, Winnipeg; C. E. Wallen, Halifax; Secretary, L. E. Westman, Toronto; Treasurer, E. T. Sterne, Brantford, Ont.

REPARATION DYES IN GOOD DEMAND

(Special Correspondence to Drug & Chemical Markets)

Milan, Italy, May 9.—The demand for reparation dyes is still very good, and as the supply is limited the business, through private channels continues active. Quotations per 100 kilos are: Naphthol yellow, 4,000 to 6,500 lire; auramine, 6,000 to 7,000 lire; orange II, 2,000 to 2,200 lire; nigrosine, water soluble, 2,800 to 3,500 lire; nigrosine, soluble in alcohol, 3,000 to 3,800 lire; sulfur black, 700 to 1,100 lire; acid black, 2,200 to 2,500 lire; direct black, 2,200 to 2,600 lire; chrome black, 2,500 to 3,000 lire; methylene blue, 7,500 to 9,000 lire; direct blue, 1,900 to 2,300 lire; sulfur blue, 2,000 to 2,400 lire; malachite green, 7,000 to 9,000 lire; acid green, 6,000 to 7,000 lire; direct green, 2,800 to 3,200 lire; Bismark brown, 2,800 to 3,200 lire; Magenta crystals, 7,000 to 8,000 lire; Eosine, 5,000 to 7,500 lire; Ponceaux, 2,500 to 3,200 lire.

Exports of acetic acid during March totaled 29,812 pounds, valued at \$4,069; exports of methanol totaled 26,231 gallons, valued at \$30,477; exports of other alcohol, both pure and denatured, totaled 3,259 gallons, valued at \$2,870; exports of acetate of lime totaled 1,622,341 pounds, valued at \$54,124; exports of formaldehyde totaled 199,654 pounds, valued at \$23,414.

BRITISH CYANIDES CO. POSITION

HIT BY FERTILIZER SLUMP IN U. S.

Income From American Business Suspended Temporarily, Says Secretary's Report—Running at Loss—To Produce New Rubber Compounding Material

(Special Correspondence to Drug & Chemical Markets)

London, May 21—The fertilizer slump in the United States has been the direct cause of severe loss to the British Cyanides Co., according to a report recently issued to shareholders by the secretary, who stated that income from American sales has been temporarily suspended. This business during the past few years has been a very profitable source of income. As for prices, the report of the company of Dec. 15, 1923 stated that prices were too low and conditions in the industry far from normal. Since that time, prices have declined even further, and the company has been operated at a loss. Standing charges, including salaries of a staff of experienced technicians, have been in excess of current turnover, although it is not thought possible to dispense with the expert staff without prejudicing the future prospects of the company. They will be needed for expansion of operations when raw material, from fixation of atmospheric nitrogen, is available for turning out additional products.

Two units of the company's nitrogen fixation plant were placed in operation last year, but were found defective and are being altered. A new furnace is now being built. During the past few months, a new product has been manufactured at the company's works. The new material, the nature of which has not been made public, is expected to replace an item now used in a big way in rubber compounding. It can be made and sold much cheaper than the product now in use. In conclusion, the secretary's report states that the company is now going through a period of difficulty, but the directors hold high hopes for the future when current plans are carried fully into operation.

THREATEN SPLIT IN SALESMEN'S RANKS

As the result of a baseball game scheduled between the "Strychnine Stars" representing the fine chemical members, and the "Barium Bears", from the heavy chemical members, the annual outdoor frolic of the Salesmen's Association of the American Chemical Industry on June 14 at Hall's Hotel, Centreport, Long Island, threatens to be divided into two camps. To prevent players from injuring themselves or each other in the heat of the game, indoor baseball equipment will be used. Horseshoe pitching and three legged races will complete the athletic program.

Members of the association will leave New York at 10:00 A.M. on Saturday, June 14, at a place to be designated later, and go by bus or train to Long Island. A shore dinner will be served, a meal reputed to be one of the finest on the Long Island shore. The hotel at which the dinner is to be served is located on Long Island Sound near the spot where C. H. Hazard a year ago salvaged six cases of rye from the waves. The committee in charge is composed of George Dunning, chairman, John Chew, Adolph C. Schwarz, and C. H. Hazard.

The investigation by the Treasury Department into the dumping of sodium nitrite on the American market has been completed. A decision will be written for reference to the Secretary of the Treasury. Officials say they do not believe that either the Presidential proclamation on sodium nitrite or the appeal in the sodium nitrite case in the local courts will have any bearing on the dumping investigation.

DECLARES BUSINESS IS IMPROVING

(Special to DRUG & CHEMICAL MARKETS)

Washington, June 4—Indications of a break in the business recession are shown in the Federal Reserve Board's review for May. While the activity in some lines can be traced to seasonal increases, officials said the tone was healthier and expressed the belief that the resulting revival would have more than temporary life.

There were indications also that constructive programs were under consideration in some business circles which a few months ago were content to meet only the demands upon them and make no future plans.

Greater credit demands were evident in the last thirty days, but these were met entirely by local financial institutions. While the renewed demands for funds showed, in the opinion of Treasury officials, a spurt in business, they also indicated that commercial banks had plenty of money available for loans, with the result that rates were easier.

A general slowing up of activity in most lines of industry and business is noted, but no alarming symptoms are stressed. A decline of employment in manufacturing industries is shown.

CHEMICAL SUPPLIES WANTED

The Engineering Division, Air Service, McCook Field, Dayton, will take bids until June 23, for approximately 1,000,000 cu. ft. hydrogen, and 60,000 cu. ft. oxygen, as required during the fiscal year 1925, specified in Circular 111.

The Domestic and Foreign Commerce Department, Chicago Association of Commerce, Chicago, has received an inquiry (No. 2,940) from a company at Mexico City, Mex., in the market for a quantity of white soap in bars and flakes. Also, an inquiry (No. 2,945) from a concern at Karachi, India, in the market for soaps. Full information on application.

The Bureau of Supplies and Accounts, Navy Department, Washington, D. C., is asking bids until June 17, for supplies for different navy yards, as follows: Quantities of cresol, formaldehyde, mercury, naphthalene, croton oil, sodium fluoride, borax and liquid insecticide, for various yards, as specified in Schedule 2,242; quantities of muriatic, nitric and sulfuric acids, for various yards, as per Schedule 2,243; quantities of magnesia pipe covering, magnesia block, magnesia cement, asbestos millboard, asbestos paper, asbestos plaster and asbestos felt, for various yards, as set forth in Schedule 2,241; quantities of cleaning and polishing soap, liquid soap and toilet soap, for various yards, as specified in Schedule 2,244; for 18,000 gallons of alcohol for the San Diego, Cal., yard, as per Schedule 2,263. Also, until June 10, for 26,000 gallons light colored mineral oil, and 7,000 whale oil substitute, for the Boston, Mass., yard, as per Schedule 2,265.

The Foreign Trade Bureau, Chamber of Commerce, Merchants Exchange Building, San Francisco, has received an inquiry (No. 8,193) from a company in Mexico, in the market for quantities of shellac, to be purchased regularly at intervals of 2 months; quotations are desired on the dark, medium and light qualities. Full information on application.

The purchasing agent, Government Printing Office, Washington, D. C., is asking bids until June 6, for 100 pounds of sodium cyanide, as per list on file.

The quartermaster, Marine Barracks, Parris Island, S. C., will take bids until June 6, for 9,000 pounds of calcium chloride, as per Requisition 2,682, on file.

Will & Baumer Candle Co. has declared a quarterly dividend of \$2 a share on the preferred, payable July 1 to holders of record June 16.

New Incorporations

Midwest Carbonic Co., Philadelphia, organized in Delaware, \$25,000. Manufacture chemicals. Corporation Guarantee and Trust Co.

Utica High Class Perfumes & Toilet Waters, Utica, New York, \$25,000. E. J. Asselta, F. Gambino, G. Collonna. Attorney, S. J. Capacelatro.

Farnam Cheshire Lime Sales Co., New York, \$50,000. G. K. Brown, C. H. Fay, M. Rubin. Attorneys, Pellet, Fay & Rubin, 233 Broadway.

Jake Manufacturing Co., Wilmington, Delaware, \$100,000. Manufacture battery cleaning and other compounds.

Paper Products Co. of New Jersey, 160 Railroad ave., Asbury Park, N. J., \$100,000. Manufacture paper products.

Sterling Mint Co., New York, \$100,000. Manufacture candy. Bert Hayes, 5 East 44th st.

Hires Bottling Co., Wilmington, Delaware, \$100,000. Manufacture mineral and other waters, flavors and extracts. Pittsburgh.

Myrrhol Chemical Co., San Francisco, Cal., \$100,000. Manufacture chemical products. F. A. Seymour, Fred J. Hildebrand, G. N. Kant, M. M. Shipman and Oscar T. Barber, United Bank and Trust Bldg.

Petit Anse Co., Philadelphia, organized in Delaware, \$500,000. Manufacture and deal in salt. F. R. Hansell.

Bluridge Mica Corp., Wilmington, Delaware, \$1,500,000. Manufacture and deal in mica and feldspar. M. M. Lucy.

Rem, Inc., 2419 Greenmount ave., Baltimore, Md., 100 shares common stock, no par value. Manufacture medicinal, chemical and pharmaceutical preparations. Sidney Hollander, Walter Hollander and Sydney L. Nyburg.

Sentry Products Co., Boston, Mass., \$100,000. Manufacture chemicals, disinfectants and other specialties. Charles Pipenbrink, Charles H. Thorne, 49 Edgemere Rd., Quincy, Mass.

Universal Mfg. Co., Jacksonville, Fla., \$25,000. Manufacture insecticides. J. C. Hatcher, W. L. Schauss.

M. & E. Products Corp., 1301 W. 15th st., Chicago, \$150,000. Manufacture industrial alcohol and kindred products. Harry Esrig, Hermann P. Scher, Sydney M. Goldstein.

Paramount Rubber Mfg. Co., Akron O., \$50,000. Manufacture rubber products. Arthur W. Paradis, Peter C. Mooney.

Diversity Mfg. Co., Kansas City, Mo. Manufacture chemicals. Fletcher Lewis and Beverly B. Vedder.

Sav-O-Dent Co., New York, 1,000 shares preferred stock, \$100 par value, 3,000 shares common stock, no par value. Manufacture tooth paste. M. Schlessinger, A. S. Lauferty, H. H. Clark. Attorney, A. Tulin, 27 William st.

Zest-O Products, New York, \$50,000. Manufacture food products. W. B. Merrill, S. R. Boucher. Attorney, W. P. Langevin, 342 Madison ave.

Wilfred Laboratories, New York, \$50,000. Beauty preparations. S. M. Ostroff, I. Kaufman. Attorney, L. Ferkin, 25 West 43rd st.

Liberty Prepared Red Lead Paint Corp., Wilmington, Del., \$200,000. Manufacture paint products. Corporation Service Co.

Trukan Products Co., New York, 350 shares preferred stock, \$100 par, 750 shares common stock, no par value. Manufacture molasses. R. F. Thomas, R. H. Greene, M. B. Masberg. Attorneys, Hays, St. John and Buckley, 43 Exchange Place.

Famous Textile Co., New York, 1,000 shares common stock, no par value. Manufacture sweaters. W. S. Dryfoos, R. Kamen, I. B. Levine, 125 Avenue F, Brooklyn, N. Y.

Sameth Exterminating Co., New York, \$100,000. Exterminating business. N. N. Sameth and E. Sameth. Attorney, S. H. Imbrie, 110 William st.

Coastal Oil and Sulphur Co., Wilmington, Delaware, \$3,000,000. Petroleum and carbon oil. M. E. Hobdon, Z. H. Wood, M. R. Mannering. Corporation Trust Co. of America.

Kleen Products Sales Corp., Wilmington, Delaware, \$250,000. Manufacture patent medicines. Corporation Trust Co. of America.

Kleen Products Sales Corp., Wilmington, Delaware, \$250,000. Manufacture patent medicines. Corporation Trust Co. of America.

Norvalt Corp., Wilmington, Delaware, \$180,000. Manufacture cement. Corporation Trust Co. of America.

Canadian Incorporations

Bleachol Products, Ltd., Toronto, Ont., \$40,000. To manufacture chemicals. James N. Scott, Gordon W. Hewitt, Robert G. Ferguson.

C. I. Hood Co., Ltd., Toronto, Ont., \$40,000. To manufacture medicines. Charles D. Magee, Ernest H. Stewart, Robert Gowans.

Gargray Knitting Co., Ltd., Montreal, \$50,000. To manufacture textiles. George E. Sykes, Joseph St. Germain, Hermas J. Tremblay.

Victoria Spinning Co. of Canada, Ltd., Montreal, Que., \$50,000. To manufacture textiles. Stephen R. Peet, Isaac Rosen, D. C. Abbott.

St. Dalmas & Co., Ltd., Montreal, \$50,000. To manufacture chemicals. Francis J. Laverty, Charles A. Hale, Shirley G. Dixon.

Peabody Overall Co., Ltd., Brantford, Ont., \$100,000. To manufacture textiles. James Harley, Edmund Sweet, Archibald M. Harley.

A. Ellis & Co., Ltd., Montreal, \$50,000. To manufacture dextrine, starch and glue. Alfred Ellis, Wilfred Handfield, Benjamin Benoit.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending May 31

	Bid	Asked		Bid	Asked
*Air Reduction	75½	76	Hercules Powder	90	95
*Allied Chem. & D.	70¾	71¼	Hercules Powd., pf.	102	103½
*Allied Ch. & D., pf.	114	115½	Heyden Chem.	1½	1½
*Am. Ag. Ch.	8	8½	Hooker Electro	6	12
*Am. Ag. Ch., pf.	22¼	23	Hooker Electro, pf.	35	42
*Am. Chiclé	15¼	16	*Household Products	32½	33½
*Am. Chiclé, pf.	55	63	*Int. Agricult.	¾	1
Am. Cyan.	100	103	*Int. Agricult. New	3	4
Am. Cyan., pf.	73	76	*Int. Agricult., pf.	4	6
*Am. Druggist S.	4¼	4½	*Int. Nickel	11¼	11¼
Am. Glue	35	42	*Int. Nickel, pf.	76	77
Am. Glue, pf.	106	112	*Int. Salt	71	72
*Am. Linseed	15	17	*Mathieson Alk.	29½	31
*Am. Linseed, pf.	32½	34½	*Mathieson Alk., pf.	90¼	92
*Am. Metal	38¼	41½	MacAnd. & Forbes	140	146
*Am. Zinc	7	7½	MacAndrews & Forbes, pf.	98	103
*Am. Zinc, pf.	26	27	Merck & Co., pf.	61	64
Archer-Dan-Mid	18	21	Merrimac	94	98
Archer-Dan-Mid, pf.	81	83	Mulford Co.	32	38
*Atlas Powder	48	51	Mutual Chem.	95	110
*Atlas Powd., pf.	83½	86	*National Lead	130	131
By-Prod. Co.	33	38	*National Lead, pf.	11¼	113
By-Prod. Co., pf.	100	103	N. J. Zinc	137	140
Canad. Ind. Al.	25	30	Ning A. pf.	80	85
Canad. Salt	110	115	Parke, Davis & Co.	77	80
Casein Co.	60	70	Penn Salt	78	83
Celluloid Co.	57	62	*People's Gas, Chi.	94¼	95
Celluloid Co., pf.	106	108	Procter & Gamble	110	121
Charcoal Iron	¾	¾	Procter & Gam., pf.	105	107
Ches. Mfg.	50½	51	Royal Bak. Po.	132	137
Ches. Mfg., pf.	112	115	Royal Bak. Po., pf.	99	100
Clark Co., Fred	3	6	Shawinigan	130	132
Cleve. Cliffs Iron	60	66	Sherwin-Williams	29	31
*Com'l Solv. A.	54	55	*Sterling Prod.	56½	58½
*Do B	44	45	Swan & Finch	42	43
*Corn Products	35¼	35½	*Tenn. C. & Chem.	7	7½
*Corn Products, pf.	118	119	*Tex. Gulf, Sul.	61	61¾
*Davison Chem.	46	47	Union Carbide	58¼	59
Dow Chem. non par.	50	60	*Un. Drug	71½	72
Dow Ch., pf.	94	99	*Un. Drug, 1st pf.	45¼	46
Dow Drug Co.	135	145	*Un. Dyewood	38	44
Dow Drug Co., pf.	103	106	*Un. Dyewood, pf.	88	88
*Du Pont de Nem.	117	118	Un. Gas Imp.	67¾	69
*Du p't de Nem. Db.	86½	87	Un. Gas Imp., pf.	56¼	57
*Eastman Kodak	108	108	U. S. Gypsum	78½	79
*Eastman Kodak, pf.	108	108½	*U. S. Indus. Al.	64¾	64¾
*Freepont Tex.	34	39	*U. S. Indus. Al., pf.	100	102
*Gen'l Asphalt	35½	36	*Va.-Car. Ch.	1¼	1½
*Gold Dust	36	36½	*Va.-Car. Ch., pf.	4¼	4½
Grasselli	123	125	*V. Vivaudou	7¼	7¼
Grasselli, pf.	103	105	Will & Baumer	13	15

*Listed on New York Stock Exchange
Unlisted Stocks Through Courtesy Pynchon & Co.

The final report of Charles Munch, receiver for the Avri Chemical Co., Jersey City, has been filed with the Court of Chancery, by former Judge John Warren, counsel for the receiver. The report accompanies an application for fees of \$5,000 for Munch and \$3,500 for his attorneys.

Cars loaded with revenue freight in the week ended May 17 totaled 913,407, according to the Car Service Division of the American Railway Association. This is an increase of 4,220 compared with the preceding week, but a decrease of 78,912 under the corresponding week of last year.

Lever Brothers, London, propose to issue at par \$5,000,000 7 per cent cumulative preference shares to stockholders in the approximate proportion of 10 per cent of their present holdings, with a minimum allotment of 10 shares.

Mathieson Alkali Co. has declared the regular quarterly 1¼% preferred dividend, and an extra 1¼% dividend on account of accumulation, both payable July 1 to holders of record on June 20.

American Can Co. has declared a quarterly dividend of 1¼ per cent on preferred stock, payable July 1 to stock of record June 13.

United Drug has declared a quarterly dividend of 87½c on first preferred stock, payable Aug. 1 to stock of record July 15.

SHERWIN-WILLIAMS, LTD., HAS GOOD YEAR

(Special to DRUG & CHEMICAL MARKETS)

Montreal, June 4—W. S. Fallis, vice-president and managing director of Sherwin-Williams Co. of Canada, Ltd., states that the company from the beginning of its fiscal year, Sept. 30, 1923, to the end of 1923 registered an increase in volume of business of approximately 27 per cent. With the advent of 1924 there came a falling off which to a considerable extent has dissipated the betterment of the corresponding period of the preceding year.

In the year ending Aug. 31 last the company's volume of business was about \$14,500,000, an increase of about 20 per cent over the previous twelve months. Shortly after the beginning of 1924 there were indications of lessened activity in trade, which have lately become more pronounced. In Mr. Fallis's opinion this is due to the downward changes in the Canadian Tariff which have brought about a lessened confidence in the minds of industrial concerns in regard to plans for expansion.

Textile Soap Co. has filed a financial statement for the year ended Dec. 31, with the Massachusetts Commissioner of Corporations, showing: Assets: Real estate and machinery, \$29,954; merchandise, \$27,508; notes, \$227; accounts receivable, \$11,486; cash, \$6,054; securities, \$609; insurance prepaid, \$599; salaries, \$22; profit and loss, \$136,220; good will, \$6,000; total, \$218,679. Liabilities: Capital stock, \$47,000 (\$65,000 authorized); accounts payable, \$986; notes payable, \$170,693; total, \$218,679.

Society of Chemical Industry, Basle, reports a net profit of £128,000 on the balance sheet issued May 15 for the year just closed against £100,000 for the previous fiscal year. A dividend of 15 per cent has been declared as against 12 per cent last year. Sales in the Far East were a big help to the company's 1923-24 business. The American subsidiary in Cincinnati was reported finding difficulty in meeting competition of American dye makers, and had not come up to expectations.

Suit for \$6,833,469 was filed in the U. S. District Court at Atlanta, Ga., May 27, against Coca-Cola Co. of Georgia for unpaid income and excess profits taxes for 1919 and a 50 per cent penalty assessed by the Commissioner of Internal Revenue for the alleged making of a fraudulent and false return. The Government asserts that the company paid income and excess profits taxes totaling \$1,548,184 for 1919, when a tax of \$6,103,830 should have been paid.

Brunner, Mond & Co., Liverpool, report a profit for the year ended March 31, 1924, of £1,552,574, plus amount carried forward of £88,911, making a total of £1,641,485. To general reserve, £88,015 has been placed, and £150,000 for suspense account. The annual meeting of stockholders was held May 23, at the Midland Adelphi Hotel, Liverpool.

The board of directors of the Paraffine Companies, Inc., San Francisco, have voted the regular quarterly dividend of \$1.75 a share on the preferred stock. In addition, a dividend of \$1 a share was voted on common stock, both payable June 27. The company has 58,327 shares of preferred stock outstanding, and 92,622 shares of common stock.

Allied Chemical & Dye Corp. has declared the regular quarterly 1¼% preferred dividend, payable July 1 to holders of record June 13.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, pages 1716-1718

TIN SALT SCHEDULE REDUCED BY MAKERS

June Prices Lower Due to Drop in Tin—Bichromate Prices Shaded—Barium Chloride Easier on Spot—Copper Sulfate Weak—Arsenic Slightly Firmer—Prussiates Quiet—Sodium Nitrite Firm—Export Buying in Caustic Soda—Holidays Have Little Effect on Chemical Trading

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced	No Advances	Declined
Potassium Bichromate, ¼c lb.			Tin Crystals, ¾c lb.
Tin Bichloride, 1¼c lb.			Tin Tetrachloride, ¾c lb.
Barium Chloride, Imp., \$2.00 ton			

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial...lb.	\$1.11	\$1.11	\$1.11	\$1.12	\$1.19½	\$1.07
Sulfuric Acid, 66 deg. ton	14.00	14.00	14.00	15.00	55.00	20.00
Ammonium Sulfate...100 lbs.	2.70	2.70	2.70	3.15	7.50	2.65
Bleaching Powder...100 lbs.	1.90	1.90	1.90	1.90	9.50	1.50
Copper Sulfate, c/1.109 lbs.	4.65	4.65	4.65	5.75	20.00	4.50
Potash Caustic, Imp...lb.	.06¼	.06¼	.06¼	.07¾	.87	.08
Soda Ash, 58 p.c...100 lbs.	1.94	1.94	1.94	2.00	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.66	3.66	3.66	3.70	9.50	1.42
Potassium Bichromate...lb.	.09¼	.09¼	.09¼	.11	.65	.06¼
Sodium Prussiate, Imp.lb.	.09¼	.09¼	.10¼	.16	1.25	.18
Average	2.922	2.922	2.922	3.206	10.79	2.99

The holidays at the close of last month had little effect upon volume of business done in the chemical market and simply gave many factors in the trade a little respite from the ennui of dullness in chemicals. Then, too, buyers are inclined to withhold purchases during the closing week of a month to keep down inventories. This added to the already quiet condition of the market. The trend of prices continues downward as reductions gradually take place in the market and the average price has dropped to lower levels during the month. The unseasonable weather has had much to do with the lack of buying in some commodities and, with the summer almost at hand, little hope is held out for full recovery in buying. The insecticide trade is marking time while waiting for the actual consuming season to arrive. Thus far the season has been disappointing in nearly all insecticides. The alkalis are a steady feature in domestic consumption and, though shipments are beginning to show a decline, deliveries up to this month are reported satisfactory. Export inquiry for caustic soda slightly better and some good tonnage is reported to have been shipped. Tin salts have been reduced for June following the decline in metal prices during May.

Acid, Acetic—Fair business in small quantities with prices steady. Makers quote 28%, \$3.12@\$3.37 as to quantity in barrels; 56%, \$5.85@\$6.10; glacial, \$11.01@\$11.76.

Acid, Formic—Moving regularly with 85% held at 12½c/lb. and 90%, 13c/lb.

Acid, Oxalic—In slow demand with prices quoted from 10c@10¼c/lb. for imported to 10¼c@10½c/lb. for domestic, spot.

Acid, Sulfuric—Deliveries reported in good volume. Prices are steady with 66° in tanks, \$14.00@\$15.00 ton, works. Carboys, \$1.30@\$1.75 as to quantity; 60° in tanks, \$9.00@\$10.00 ton, works.

Ammonium Chloride—Domestic is moving steadily at 7¼c@8c/lb. for white while imported is unsettled and quoted from 6¼c@6¾c/lb. Grey named at 8c@8½c/lb. for domestic and 7½c/lb. for imported.

Arsenic—Holders of spot stocks are firmer in their views and some of the low bids are being turned down. While it may be possible to do 8¼c/lb., most sellers are unwilling to shade 8½c/lb. and others are holding for 9c/lb. spot. Calcium arsenate is under competition and sales have been reported under 11c/lb. delivered at Southern points. Prominent sellers continue to quote 11c@12c/lb. for prompt delivery.

Barium Compounds—Barium chloride is easier and spot stocks are quoted at \$3.00@\$5.00 ton. Carbonate named at \$63.00 ton for imported spot. Domestic at \$66.00 ton, works. Nitrate is quiet at 8c@8¼c/lb. Dioxide, 15c/lb. spot.

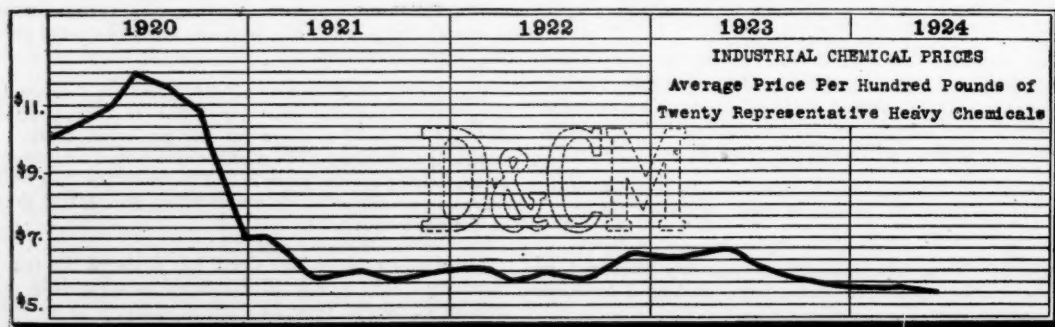
Bleaching Powder—With the approach of Summer, deliveries are falling off. Makers are maintaining prices at \$1.90 for carlots of large drums at works and \$2.15 for small drums. Less than carlots are 15c higher. Spot business named at \$2.35@\$2.60.

Chlorine—While new business is slow, deliveries on contract are in good volume. Prices hold at 4½c/lb. in tanks at works; carlots of cylinders, 5½c/lb.; less than carlots, 6½c/lb.; and less than ton lots, 7½c/lb.

Copper Sulfate—Is inclined to be a trifle easier and sales are reported from \$4.50@\$4.60 in carlots, New York, and up to \$4.75 for small lots. Imported is weak at 4¼c@4½c/lb.

Carbon Tetrachloride—Unsettled and quoted from 7c@8c/lb. as to seller and quantity.

Potash, Caustic—Quiet and unchanged, 6¾c@7c/lb. for



imported. Imports at New York last week were 306 drums.

Potassium Bichromate—Makers report quiet business. Prices are now quoted 9¼¢@9½¢lb. as to quantity.

Potassium Prussiate—Yellow is quiet and unchanged, 18½¢@19¢lb. Red, 35¢@37¢lb.

Soda Ash—Contract deliveries are reported in fair volume while new business is quiet. Prices continue at \$1.25 for carlots in bulk on contract; bags, \$1.38; and barrels, \$1.63. Spot business in less than carlots, \$2.04@2.19 in bags and barrels, \$2.29@2.44.

Soda Caustic—Some fair orders for export were placed during the week. Domestic business continues steady though shipments are showing a seasonal decline. Makers continue to quote contract business at \$3.10 for solid in carlots of drums and \$3.50 for ground and flake in carlots. Spot business in less than carlot quantities is named at \$3.76@3.91 for solid and \$4.16@4.31 for ground and flake.

Sodium Bichromate—New business is quiet and confined to small quantities. Prices range from 7½¢@7¼¢lb. in makers' hands.

Sodium Nitrite—Firm at 8½¢@9¢lb. as to seller and quantity.

Sodium Prussiate—Imported in little demand though offered at 9½¢lb. General quotations 9¾¢@10¢lb. Domestic, 10½¢lb.

Tin Salts—Makers have reduced prices for June to a basis of 31½¢@32¢lb. for crystals; bichloride, 12¢lb.; tetrachloride, 24½¢lb.

Metals—Copper developed a slightly better tone. Electrolytic held at 12¾¢@12½¢lb. Lead strengthened during the week though unchanged at 7¢lb., spot, and 6¾¢lb., E. St. Louis. Zinc gained a few points, advancing to 6½¢lb. Tin declined further to 40¾¢lb. for Straits, 40½¢lb. for standard and 40¢lb. for ninety-nine per cent.

Frank F. Skinner of Merrimac Chemical Co., Boston, died at his home in Everett, on Sunday May 25. Thirty-eight years ago, during a summer vacation of the Everett High School, he was employed by Cochrane Chemical Co. as a laboratory assistant. He was then eighteen years of age. Instead of returning to school to complete his course he remained with the company and during the next twenty-five years worked in various capacities, being finally promoted to assistant to the superintendent of the West department. In 1917, when Merrimac Chemical Co. bought the plant of Cochrane Chemical Co., Mr. Skinner remained as salesman, and in 1923 was promoted to assistant sales manager.

Production of nitrate in Chile continues high, writes Commercial Attache R. H. Ackerman, of Santiago. Sales for delivery in the new nitrate year (July 1, 1924-June 30, 1925) opened May 14 and on May 25 had attained the figure 10,450,000 metric quintals. April exports amounted to 1,443,000 quintals. Total nitrate sales for the nitrate year 1923-24 will fall approximately 10 per cent below the early estimate of 25,000,000 quintals, and amount to date to 22,130,000 quintals, which is approximately the same as last year. Exports in 1922-23 amounted to 21,010,345 quintals.

George H. Rhodes, formerly of the color laboratory of Cheney Brothers, has joined the organic research department of Grasselli Chemical Co. and will work on intermediates and dyes at the Elizabeth, N. J. plant of the company.

C. W. Campbell, president of C. W. Campbell Co., New York, sailed May 28 on the Aquitania for a two months tour through Europe.

OFFERS OF ARSENIC BY JAPANESE AFFECT BRITISH AND AMERICAN PRICES

London Paper Says Producers In Japan Have Been Accumulating Stocks In Anticipation of a Brisk Demand from the United States—Consumers Reluctant to Pay Importers' Prices

Under the heading "The Break in Arsenic", recent developments on both sides of the Atlantic and in Japan are discussed in the "Chemist and Druggist", London, which says: "In our issue of March 8 last we dealt fully with the subject of increased arsenic production and the circumstances under which the aspect of the market had been weakened since the close of last year, when the price of Cornish powder delivered London stood at about £69 per ton.

"Within the last few weeks the continuous sagging of the market has become particularly pronounced, offers having been reported by Cornish producers at the close of last week down to as low as £50 free on rail Cornwall, which is approximately equal to £52 10s. delivered at this end. Under the date March 8, when the American price was about 13½ cents per lb. and Cornish arsenic in London was realizing £63 to £64 per ton, we stated that there was no doubt that full preparations had been made by American importers in the earlier part of the year to cope with prospective needs over the Spring season for agricultural use or in connection with the manufacture of insecticides; furthermore, that a considerable part of the arsenic arrivals in America had not as yet been absorbed, due to the reluctance of users to concede importers' terms.

"This state of things since would seem to have become aggravated, as borne out by the fact that arsenic has lately been selling on the other side at about 9 cents, or 4½ pence per lb. under the quotation ruling at the end of March.

"Apart from the factor relating to increased world production, it is quite apparent that under the protracted lull in the demand producers' offers of surplus stocks have been rather pressed on the market. This particularly refers to Japanese producers, who had been accumulating supplies over the winter months in anticipation of a brisk American demand towards the Spring. Offers from that quarter have, indeed, been of a decidedly more insistent character in recent weeks, down to about £46 per ton and even less. This depressing competition has proved one of the main factors in the constant crumbling of prices. Some of the Cornish mines made fairly good sales well ahead of their current output a few months back, but Cornish terms lately, however, were brought more into line with the parity of Japanese offers."

To manufacture and sell picric acid, containing 10 per cent water, makes the manufacturer subject to the munitions manufacturer's tax levied under title III, of the revenue act of 1916, section 301, subdivision 1 (a), according to a decision of the United States Circuit Court of Appeals of the second circuit, in which the judgment of the district court in the case of John A. Bolles, receiver of American Synthetic Dyes, versus William H. Edwards, internal revenue collector, was upheld.

Paris green, in very dilute mixtures with inert material such as dust, tripoli, or something of this character, is effective for retarding the development of mosquitoes by dusting swampy sections by aeroplane, according to the United States Public Health Service.

Frank Russell has opened offices at 215 Fourth ave., New York, to deal in fertilizers and heavy chemicals.

The Intermediate and Dye Market

Current Spot Quotations for Intermediates, see Chemicals, page 1716

NAPHTHALENE WEAK ON LARGE SUPPLY

Cold Spring Delays Seasonal Demand for Flake and Balls—Pyridine Easier With Improved Supplies—Phenol Continues Firm at Recent Advances—Benzol Situation Appears Strong—Cresylic Acid Routine—Intermediates and Dyes Quiet

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced	No Advances	Declined
Naphthalene, flake, 1/2 lb.			Pyridine, 40c gal.

	Trend of the Market			Last Year	War Peak	Pre. War
	Today	Last Week	Last Month			
Benzene, pure .....gal.	\$.25	\$.25	\$.25	\$.30	\$ 1.10	\$.25
Naphthalene, flake .....lb.	.08 1/2	.06	.06	.08 1/2	.16	.08
Phenol, Spot .....lb.	.28	.28	.26	.50	1.50	.08
Toluene .....gal.	.26	.26	.26	.30	..	..
Aniline Oil .....lb.	.16	.16	.16	.16	1.40	.10 1/2
Alpha-naphthylamine .....lb.	.35	.35	.35	.35	1.28	..
Benzaldehyde .....lb.	.75	.75	.75	.75	..	..
Betanaphthol .....lb.	.26	.26	.26	.24	1.50	.08
Dimethylaniline .....lb.	.36	.36	.36	.42	1.30	..
Paranitroaniline .....lb.	.70	.70	.70	.73	1.58	.18
Average	0.343	0.343	0.341	0.383	..	..

The average price of coal-tar products showed very little change during May from the average of the preceding month. Phenol was on the decline early in the month, but recovered again during the last two weeks, following a better buying movement. Naphthalene has been one of the outstanding disappointments to manufacturers and sellers this Spring. The continued cold weather during the past two months has retarded sales to a great extent and it is doubtful if the buying will recover. Owing to the activity in steel during the winter, production has been large while demand has been well below normal. The dye industry has consumed comparatively small quantities. Stocks have been accumulating and prices are at low levels compared with last year. The dye industry has settled down to a routine production to meet the smaller consuming demand. Until the textile industry shows signs of improving, activity in dyes and intermediates will continue along the same quiet lines which have characterized the market since the first of the year. Although a little shading is taking place here and there in intermediates, prices have remained steady since reductions would have little effect upon the market. The week-end holiday augmented the already quiet closing days of last month.

Coal-Tar Crudes

Benzene—The situation has shown little change during the week. While prices are holding at former levels, the outlook for the future appears strong owing to the developments in the steel industry. With steel and coking operations being curtailed, supplies of light oils will gradually be affected. And with the season of largest consumption of benzol for motor fuel purposes at hand, supplies of the pure and ninety per cent grades may be curtailed. Producers are now quoting pure at 24c and 25c in tanks and 30c in drums at mills. Ninety per cent, 23c in tanks and 28c in drums.

Cresylic Acid—Little activity reported over the week. Prices held at 65c@75c per gallon for the pale acid and 63c@65c for the dark. Crude named at 60c gallon.

Naphthalene—The cold Spring has affected buying and stocks have been accumulating. Little hope is held for a recovery in buying. Quotations are generally on the basis of 5 1/2c@6c lb. for the flake and 6 1/2c@7c lb. for balls though sales have been reported at 5 1/2c for balls and flake, delivered New York. Chipped quoted 5c lb.

Naphtha, Solvent—Moving regularly with prices steady at 25c gallon in tanks at mills and 30c in drums.

Phenol—Fair buying is reported and with supplies in somewhat limited quantity, prices have been holding at 28c@29c lb. spot according to seller.

Pyridine—The situation is easier both here and abroad. Spot prices are quoted \$4.85@5.00 gallon and nearby shipments at \$4.50 gallon.

Toluene—Sales are reported regular with prices firm, 26c per gallon in tanks at mills and 31c in drums.

Intermediates

Acid, Gamma—In limited demand with prices unchanged, \$1.40@1.50 lb.

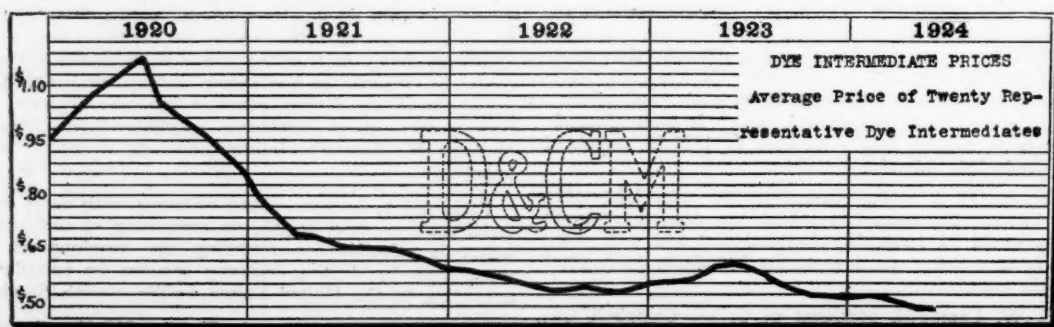
Acid, H—New business reported quiet at unchanged prices, 72c@75c lb.

Acid, Salicylic—Occasional sales of technical are reported at 32c@33c lb.

Alpha-naphthol—Quiet and unchanged, crude, 65c lb. and refined, 80c lb.

Alpha-naphthylamine—Sales confined to moderate quantities at 35c@37c lb.

Aniline Oil—No special activity and prices steady,



16c@17c/lb. as to quantity. Aniline salt moving slowly, 22c@23c/lb.

Benzidine—Occasional sales with makers steady at 80c/lb.

Beta-naphthol—Buying confined mainly to small lots which makers quote at 26c/lb. * Carlots quantities are named at 24c/lb.

Diethylaniline—Makers continue to quote 36c@38c/lb. as to quantity on routine demand.

Para-nitraniline—In fair demand with makers quoting 68c@72c/lb. as to seller and quantity.

Para-toluidine—Quiet and unchanged, makers quoting 80c/lb.

TELLS VALUE OF REPARATION DYES

In reply to an inquiry in the British House of Commons on May 13, regarding the value of German reparation dyes, received by England during the years ending March 31, 1923 and 1924, the President of the British Board of Trade said that the value of German reparation dye-stuffs received during the year ended March 31, 1923, was £301,400, and in the year ended March 31, 1924, approximately £194,000. The terms of agreement with the British Dyestuffs Corp. were set out in a letter to the Board of Trade from Sir W. Alexander, chairman of the British Dyestuffs Corp., dated Aug. 18, 1922, in which he said in part:

"We will invoice the dyestuffs and collect payments, and we will pay the Board on the last Friday in each month the sums due in respect of goods sold during the preceding month, subject to paragraph 11. We will accept the responsibility of giving credit.

"We will act, subject to any existing agreements or to the requirements of the Indian and Dominion Governments, as distributors of the dyestuffs throughout the British Empire.

"The prices at which the dyestuffs will be sold in the United Kingdom will be fixed by the Board or their nominees and these prices will be those charged to consumers.

"We will receive for our services 6½ per cent commission on the turnover, with an additional 1 per cent for guaranteeing payments. The Board, subject to the production of proper accounts, will also make an annual contribution not exceeding £30,000 payable in monthly instalments towards the cost of freight, warehousing charges, repacking, materials for packing and internal transport charges. The commission and the contribution will be deducted monthly by us from the amounts payable under paragraph 6.

"With the sanction of the Board of Trade, and at prices to be mutually arranged, the Corporation may purchase for its own account, for re-working or disposal, parcels of reparation dyestuffs."

DU PONT ANNOUNCES NEW DIAZO BLUE

A direct dyestuff, Pontamine Diazo Blue 2RL, has been placed on the market by the Dyestuffs Department, E. I. du Pont de Nemours & Co. When diazotized with beta naphthol, this color yields navy blues of a reddish cast which possess good fastness to washing and light. It is redder than either Pontamine Diazo Blue M or BR but like them is recommended for the production of shades faster than those usually obtained with direct colors, the maker states. Pontamine Diazo Blue 2RL possesses good solubility, is level dyeing and may be used on all classes of cotton goods. It is used in machine dyeing for producing shades of navy blue or violet. Applied on pure silk like other diazotizable colors, the shades obtained possess good fastness to light, washing and perspiration.

GERMANY URGING BRITISH DYE PACT

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 4.—Active negotiations between the British and Germans in connection with the proposed dyestuff combine, have been resumed, according to word reaching government officials.

Sir Sidney Webb, president of the British Board of Trade was asked a few days ago in the House of Commons regarding the proposed agreement and he said "negotiations between the parties to the proposed agreement are being continued." He added, "The Government has been made aware in outline of the terms now being further considered, but until the examination of them is completed I am not in a position to make any statement on the subject."

Asked when some further details would be available because of the unrest in the industry Sir Sidney replied: "The Government is not a party to the negotiations and has no power to intervene except with regard to the exercise of the power given to it under the charter, and that can only be done when agreement has been reached."

Sir Sidney further informed the House of Commons that "no action will be taken to put in force the powers of the Government without the House receiving notice."

SANDOZ DYE PROTEST SUSTAINED

Concentrated Colors Entered Before Standards of Strength Were Issued

In a decision by the Board of U. S. General Appraisers on the protest filed by Sandoz Chemical Works against an assessment on coal tar dyes judgment was issued sustaining the protest as to Diazamine blue, B. R. concentrated, Brilliant Delphine blue B, Trisulfon brown B concentrated, and Xylene blue V. S. concentrated, and overruling the protest in all other respects.

At the time of the original entry Diazamine Blue, B. R. concentrated was assessed at one and two-third times the imported weight, in the application of the provision of paragraph 28 providing for a specific duty at seven cents a pound. Brilliant Delphine Blue B, was assessed at one and two-third times its imported weight, Trisulfon Brown B, concentrated, was assessed at two times its imported weight, at seven cents a pound, or an equivalent of fourteen cents per pound; and Xylene Blue V. S. concentrated, was assessed at two times its imported weight.

Judge Brown said in his decision: "The specific duties here involved were not assessed on the basis of standards of strength established by the Secretary. There were no such standards in existence, for the Secretary of the Treasury had not established any standards of strength whatsoever. On the contrary, the assessment was made on the basis of alleged standards of strength which the examiner obtained either from domestic producers or the United States chemist. In other words, the condition by which alone the proviso could become operative (the establishment of standards by the Secretary) had not come into existence, and therefore we are of necessity left to the operation of the regular rule fixing actual weight in the assessment of specific duty."

Newport Chemical Works, Inc., of Passaic, N. J., announces the addition of two new colors to their long list of products: Newport Direct Red 3 X B, a bluish red equally good for cotton, silk or artificial silk, of fair fastness generally and perfect discharging qualities. Newport Chrome Green G C M a product for dyeing wool by chroming methods, that has good fastness to fulling and light.

The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 1735

WOOD OIL SPOT AND FUTURES LOWER

Market Finds No Demand of Importance—Coconut Oil in Tanks Reduced—Corn Oil Quiet—Cottonseed Oil Inactive—Linseed Oil in Light Demand—Oleo and Neatsfoot Oils Quiet and Unchanged—Stearic Acid and Red Oil Lower

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced	No Advances	Declined
Chinawood Oil, spot, N.Y., ¼c lb. Red Oil, dist., ¼c lb.			
June, f'ward, arriv., N.Y., ¼c lb. Stearic Acid, S.P., ¼c lb.			
Coast, tks., June f'ward, ¼c lb. Stearine Oleo, bbls., ¼c lb.			
Coconut Oil, Ceylon, tanks, N.Y. Tallow, city, extra, ¼c lb.			
¼c lb. Turpentine, 2c gal., ex-yard, N. Y.			

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Cod Oil, N. F. gal.	\$.64	\$.64	\$.64	\$.72	\$1.26	\$.36½
Degras, American, bbl. lb.	.04¾	.04¾	.04¾	.04½	.23	.03½
Lard, No. 1 gal.	.79	.79	.81	.91	2.90	.92
Menhaden, crd., bbls. gal.	.50	.50	.50	.55	1.20	.33
Neatsfoot, 20 deg. c.t. gal.	1.38	1.38	1.38	1.25	3.45	.95
Red Oil, distilled gal.	.09¾	.09¾	.09¾	.10¾	.17	.07
Stearic Acid, T.P. lb.	.13¾	.13¾	.13¾	.14¾	.33	.12
Coconut, Ceylon, bbls. lb.	.09¾	.09¾	.09¾	.10¾	.90	.14
Cottonseed, crude, tks. lb.	.07¾	.07¾	.08½	.09¾	.25	.08
Linseed, carlots gal.	.94	.94	.90	1.14	1.88	.57
Olive, denatured gal.	1.21	1.21	1.25	1.17	4.50	1.05
Peanut, refined lb.	.15¾	.15¾	.16¾	.16½	.30	.08
Soya Bean, bbls. lb.	.12	.12	.12	.13¾	.10½	.07

Average 0.476 0.476 0.477 0.513 1.30 0.362

The consistent lack of consuming demand which has characterized the oil market for several weeks, has continued over the holidays with no indication of betterment coming to light. Reports from all quarters reflect the same quiet situation and cautious attitude on the part of buyers regarding new business. No advance purchasing of any account is being done and local buying is confined to unimportant quantities. The trade generally does not look for any sustained improvement before early Fall aside from possible flurries which may occur during the summer. With sellers conforming to the conservative buying policy of consumers by allowing their stocks to dwindle, prices generally are influenced by a fairly steady undertone. The declines registered last week failed to arouse anything more than casual interest and it is evident that cutting prices has had little effect in bringing better business.

Vegetable Oils

Castor Oil—Continues in good demand with prices

remaining unchanged. No. 1 is quoted 16c@16½c lb., No. 3, 15½c@16c lb.

Chinawood Oil—Conditions are about the same as last week with demand in a dormant state. Prices for all grades are lower with spot oil, in bbls., quoted 14¼c@14½c lb.; in tanks, 13¼c@13½c lb. Sales have been made at the coast, in tanks, at 12½c@13c lb.

Coconut Oil—Ceylon, in tanks, N. Y., has been reduced to 8½c lb. Market has been quiet over the holidays with little activity of any importance. Cochin, in bbls., N. Y., is unchanged at 10¼c@10½c lb.

Corn Oil—Price for refined oil is holding steady at last week's decline, although there has been comparatively little demand. Crude oil is quiet at 8½c lb.

Cottonseed Oil—Market during the past week has been a quiet affair, influenced by inactivity of the holiday period. There have been few sales of importance but, nevertheless, prices have been comparatively steady. Crude oil is unchanged at 7¾c@8c lb. at the mills. P.S.Y. oil quoted as follows: June, 9.50@9.75; to Sept., 9.83@9.90; Oct., 9.43@9.45; Nov., 8.80@8.92; Dec., 8.70@8.82; Jan., 8.70@8.90.

Linseed Oil—No large inquiries have been received by the leading crushers during the past week and business is limited to contract delivery. Quotations of 94c gal, carlots, and 97c gal, less than carlots, are unchanged. London linseed oil is quoted 39s, Antwerp, 33f per 100 kilos. Flax markets are steady. Winnipeg, May, \$2.15¾; July, \$2.10¾; Oct., \$1.84. Duluth, May, \$2.47; July, \$2.39½; Sept., \$2.15.

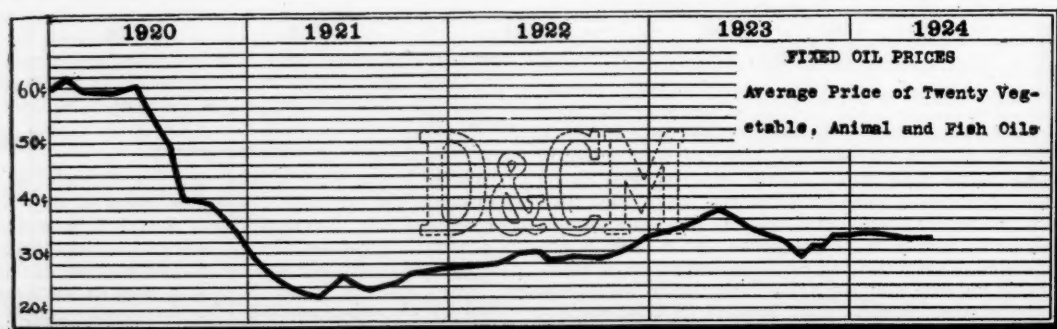
Olive Oil—Sales have been made during the week at \$1.20 gal. but actual demand is light. Edible is unchanged at \$2.00@2.25 gal. Olive oil foots are quiet at 9½c@9¾c lb.

Palm Oil—There has been little activity during the week with few sales of importance. Lagos is unchanged at 7½c@7¾c lb. with Niger, 6½c@6¾c lb.

Animal Oils

Lard Oil—Market continues quiet with export demand decreasing. Prices are unchanged at recent declines with edible prime quoted 13¼c lb. No. 1 is quoted 10½c lb.

Neatsfoot Oil—Supplies continue fairly scarce and market maintains a steady appearance, although demand is quiet. 20 deg. c.t. is quoted 18½c lb.



Oleo Oil—Continues in fair demand locally but export demand continues quiet. Prices are unchanged with No. 1 quoted 12½¢@12¾¢lb. and No. 2, 10½¢@10¾¢lb.

Red Oil—Interest has lagged somewhat during the week and prices have declined. Distilled is quoted 8¾¢@9¼¢lb.

Stearine Oleo—Price for barrel lots has been shaded to 10½¢lb. Demand continues quiet for small quantities.

Fish Oils

Cod Oil—Is moving in purely routine way with demand light and offerings limited. Newfoundland oil is quoted 63¢@65¢ gal. in cooperage, and 58¢@60¢ gal. in tanks.

Menhaden Oil—Very little interest is shown for crude oil on the "when made" basis. The catch in the Chesapeake Bay district is scheduled to start on June 16th. Refined oil is unchanged at 61¢@63¢ gal., for light strained, and yellow bleached, 63¢@65¢ gal.

Naval Stores

Turpentine—Following a decline to 80¢ gal. at Savannah, New York prices, ex-yard, were quoted 87¢ per gal. The tone of the market has been easy and buyers have hesitated toward heavy purchasing.

Rosins—Prices have been unchanged during the past week and the various grades are quoted at last week's levels. Buyers, for the most part, are holding off in anticipation of more favorable conditions in the Southern markets. The following quotations are holding: B, \$5.60; D, \$5.65; E, \$5.85; F, \$6.00; G, \$6.05; H, \$6.10; I, \$6.10; K, \$6.15; M, \$6.25; N, \$6.50; WG, \$7.25; WW, \$7.75.

Stocks of Chinawood oil at Hankow, on April 30, amounted to 1,000 tons, writes Consul General Heintzelman, of Hankow. Exports in April were 17,300 barrels, of which 708,700 gallons, value \$879,920, were for the United States. Prices declined gradually during the month from 24 taels to 19.50 taels. Prices in the interior producing districts were approximately equal to prices ruling at Hankow. This condition is illogical and is probably only temporary.

Imports of linseed oil during March totaled 83,806 pounds, valued at \$7,648. Imports of flaxseed totaled 2,284,763 bushels, valued at \$4,180,766, most of which came from Argentina. During March also the United States imported 6,749,021 pounds of Chinawood oil, valued at \$1,103,798. Exports of linseed oil from the United States during March totaled 170,564 pounds, valued at \$23,845.

The separation of Southern Cotton Oil Co. from Virginia-Carolina Chemical Co. has been arranged through the Citizens & Southern Co. with New York and New Orleans banking connections. The oil company is to be operated independently with headquarters in Savannah and New Orleans.

L. W. Bosart, of Procter & Gamble Co., was elected chairman of the Cincinnati Section of the American Chemical Society at their annual meeting, which was held recently at the University of Cincinnati.

The National Paint, Oil & Varnish Association's 1924 year book contains a list of the officers, members, and a report of the proceedings of the annual meeting at Chicago last year.

An oil tank, located at the Edgewater, N. J., plant of Archer-Daniels-Midland Co., took fire recently. The actual loss is said to amount to less than \$10,000.

Interstate Oil Mill Superintendents' Association will hold their annual convention at Atlanta, Ga., June 11 and 12.

DECIDE TO INVESTIGATE OILS AND FATS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 2.—After months of delay the Tariff Commission on Saturday took definite action in connection with the vegetable oil investigation. While no official statement has been made public by the Commission it is understood that it approved generally the investigation outlined by the experts. This includes a general investigation both in the United States and abroad of vegetable oils and fats. The Commission also authorized an investigation of cottonseed oil, soya bean oil, and coconut oil. No details of the investigation are available today, further than the fact that the investigations are to begin immediately.

TURPENTINE FIRM AT SAVANNAH

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Savannah, Ga., June 2.—Turpentine closed the week firm, 77¾¢, after touching 77½¢. This price shows a decline of 5¢ from prices of a week ago. Heavy receipts and offerings during the closing week of the month with practically all May contracts having been delivered and a smaller demand have accounted for the lower prices. Efforts will be made to deliver June contracts from receipts and a strengthening of the market is expected to result, though the trade is not hopeful. Shipments have been heavy for foreign accounts. Rosin closed firm with quotations showing partial advances on fine grades and declines of 15-20¢ on mediums and commons. A large amount of rosin has been moving. Prices are below costs of production. Receipts for week; turpentine, 3,766 bbls; sales reported, 1,721 bbls; shipments, 3,770; stock, 7,610 bbls. Rosin: receipts, 10,959 bbls; sales, 8,600; shipments, 9,732 bbls; stock, 72,231 bbls.

Jacksonville, May 31.—Turpentine closed firm 77¾¢ showing a slight recovery but a decline of 5¢ from last week. More interest is being shown in present offerings. Stock, 12,631 bbls. Rosin closed firm at fair advances and all offerings taken. Quotations: WW, \$6.65; WG, \$5.95; N, \$5.30; M, \$5.20; I, H, \$4.90; G, F, \$4.80; E, \$4.60; D, \$4.40; B, \$4.30.

HONGKONG WOOD OIL EXPORTS INCREASE

During 1923, exports of Chinawood oil from Hongkong amounted to 13,545,067 pounds, of which the United States received 7,593,183 pounds, according to Consul William J. McCafferty, Hongkong, who says dealers and exporters say 1923 was a record year in the history of wood oil exports. This is partially accounted for by the great difficulty in obtaining supplies through Hankow because of unsettled conditions and the poor crop of nuts in that section. Although most users prefer the Hankow oil, they have had to look to Hongkong to supply the bulk of their requirements.

Sales to the United States reached the peak during December, notwithstanding the fact that the price was higher than earlier in the year. The average price at the beginning of the year was \$23 to \$24 Hongkong per picul (133½ pounds), and rose to \$39 to \$42 in May. At the end of the year, the price was around \$32 to \$36 per picul. American prices for oil rose from 11¢ per pound to 21¢ per pound, declining toward the end of the year to 19¢ per pound.

A list of paint manufacturers of the United States has been compiled and published by G. B. Heckel, secretary of the Paint Manufacturers Association, which includes all manufacturers of paint whether for sale or for use within their own plants.

The Fine Chemical Market

Current Spot Quotations for Fine Chemicals, page 1716

MAKERS CUT STRYCHNINE AND CAFFEINE

Competition With Imported and Resale Goods Responsible—Imported Bromides in Active Demand for Speculation—Spot Cod Liver Oil Down—Mercury Easier—Menthol Lower—Camphor Firmer for Shipment

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced	No Advances	Declined
Cod Liver Oil, Norwegian, \$1.00 bbl.			
Menthol, 25c lb.			
Mercury, \$1.00 flask			

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Acetanilid	\$32	\$32	\$32	\$32	\$2.00	\$20
Acid Citric, Import	47	47	47½	52	1.25	45
Caffeine Alkaloid	3.65	3.65	3.65	3.75	18.00	3.65
Calomel, American	1.22	1.22	1.17	1.25	3.43	.90
Camphor, Jap., ref. ....	.73	.73	.74	.88	3.55	.41
Jodine, Resublimed	4.40	4.40	4.40	4.55	5.00	3.75
Menthol	12.00	12.25	13.50	7.75	13.50	3.00
Potassium Bromide, Cryst. ....	.33	.30	.30	.26	4.30	.80
Quinine Sulfate, Imp. ....	.50	.50	.50	.50	.90	.25
Sodium Salicylate .....	.40	.40	.40	.47	4.25	.27
Strychnine Sulfate .....	.63	.63	.63	.84	2.05	.50
Average	2.24	2.26	2.39	1.92	5.92	1.56

Imported bromides are reported to be the outstanding firm feature in the fine and medicinal chemical market. Import prices are quoted well above spot prices, and some directions think that further advances are about due. Movement in the other chemicals has been routine with most of the orders for current consumption only. With any increase in buying during the next four weeks, higher prices are assured owing to the smallness of stocks, especially of the leading items. Little weakness in values has been shown from first hands in spite of the increasing volume of cheap resale material. Imports of chemicals of late have been noticeably small, which condition will undoubtedly have its effect on the market as soon as spot stocks pass into consumption. Present situation favors the consumer, but how long it will remain in his favor, depends on stocks in consuming quarters.

Acetanilid—In small demand at the moment at 29c@30c/lb. spot from second hands, and 30c@32c/lb. from makers.

Acid, Acetylsalicylic—Makers report little business passing at 75c@85c/lb. spot as to seller, and second hands name 70c@71c/lb.

Acid, Citric—Imported quoted easy at 47c@48c/lb. spot. While some future business has been reported, the volume does not compare favorably with the amount transacted last Spring. Prompt shipment named at 30c/lb. c.i.f. New York. Domestic, 30c/lb.

Acid, Diethylbarbituric—In small demand at \$3.75@4.00/lb. spot for imported, and \$10.00@12.00/lb. for domestic.

Acid, Salicylic—Unchanged at 35c/lb. spot by makers, and 33c@34c/lb. by second hands.

Alcohol—Makers report steady demand at 48c@50c gal. spot for No. 1 specially denatured; No. 5 completely denatured, 47c@49c gal.; and 46c@48c gal. for No. 6 material.

Amidopyrine—In small demand at the moment at \$4.35@4.50/lb. spot as to seller and quantity for imported, and \$4.60/lb. for domestic.

Antipyrine—Steady at \$2.10@2.25/lb. spot.

Bismuth Subnitrate—Resellers name \$2.90/lb. spot, the same price as first hands. Demand routine.

Bromides—Quoted at 21c@22c/lb. spot for ammonium; potassium, 22c@23c/lb.; and sodium, 24½c@26c/lb. with the possibility of an advance in prices owing to high replacement costs and the general reduced state of spot stocks. Domestic makers name 39c@40c/lb. for ammonium; potassium, 29c@33c/lb.; and sodium, 32c@33c/lb.

Caffeine—Manufacturers have reduced price owing to keen competition and now quote \$3.50@3.75/lb. spot as to quantity. Resellers still name \$3.65/lb., but within the next week, the price will probably be reduced to meet the makers' recent decline.

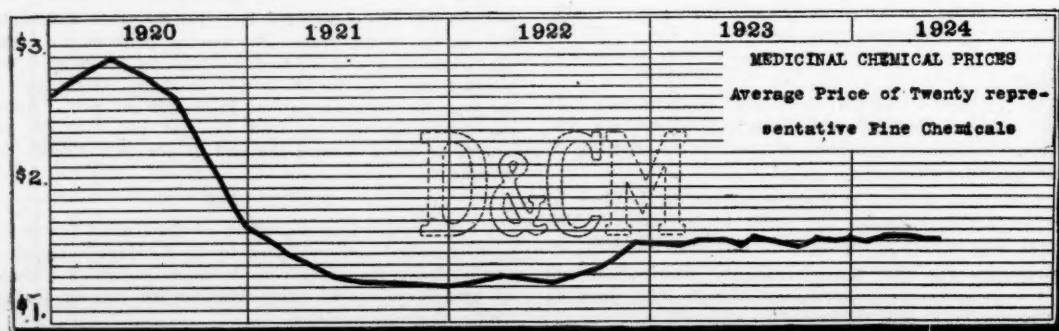
Camphor—While spot Japanese slabs are named easy at 73c@74c/lb., prompt shipment is held inside at 61½c@62c/lb. c.i.f. New York. Domestic, 88c/lb. in bulk.

Cod Liver Oil—Has declined on the arrival of new supplies and now quoted at \$21.00@24.00 bbl. spot as to seller and quantity. Late reports from Norway state that the catch is slowing down considerably, but at the same time it is far ahead of last year.

Cream Tartar—Imported easy at 20½c@21c/lb. spot with the possibility of shading these figures on firm business. Domestic, 21¼c@21½c/lb.

Formaldehyde—Dull with tendency for accumulation of stocks at 9¾c/lb. works in c/l.

Glycerin—C.P. quiet with holders naming 16½c@18½c/lb. spot as to quantity. Dynamite held at 16c/lb.



Menthol—Quoted lower at \$12.00@12.50lb. spot as to seller and quantity with the possibility of shading these figures on firm business. Prompt shipment is held at \$11.50lb. c.i.f. New York. Buying has been quiet with tendency for 5-10lb. lots as the maximum. Domestic, \$11.75lb.

Mercury—Spot goods quoted lower at \$75@77 flask as to seller and quantity. Same position prevails to-day as a month ago, namely, about 25,000 bottles short from now until Oct. 1. Any appreciable activity would raise prices, according to one holder. London still names £13 5s per flask.

Podophyllin—Easy at \$5.75@6.00lb. spot by first hands, and \$5.75@5.90lb. from resale quarters.

Potassium Permanganate—Imported steady at 14c@15c lb. spot, and domestic held at 14¼c@15c lb. Reports are heard that the largest holder has reduced his stocks materially, since he has met the market.

Sodium Benzoate—In fair demand at the moment at 65c@68c lb. spot.

Strychnine—Has declined owing to cheaper raw material and slow demand from consumers. Now quoted as follows: Alkaloid, crystals, 64c oz.; powder, 54c oz.; and sulfate, 43¼c oz. spot.

ITALY HAS LARGEST CITRIC ACID PLANT

Fabbrica Chimica Arnella, of Sicily, which severed its German connections in 1916, is the largest citric acid producer in the world. The number of workers employed is about 450, and it has a capacity of from 2,500 to 3,000 tons per annum of calcium citrate—about one-third of the entire production of Sicily—from which 1,500 to 2,000 tons of citric acid are obtained. Besides this company, two others have been organized in recent years and another is at present under construction. All three are located in the Province of Messina and are able to transform 5,500 tons of calcium citrate per annum as follows: "I. S. A. C." Gazzi, Messina 2,000 tons; "S. A. D. A." Tremestiere, Messina 1,000 tons; "S. G. F. C." Teresa di Riva, Messina 2,500 tons.

If to these 5,500 tons we add the 2,500 tons output of the Arnella Co. we have 8,000 metric tons, approximating Sicily's total annual production of calcium citrate, writes Trade Commissioner J. Allen Palmer, of Rome. The following table shows Italy's imports and exports of citric acid:

Years	Imports Quintals	Exports Quintals	Excess of Quintals
1913	1,053	2,205	1,152
1920	634	18,293	17,659
1921	99	6,483	6,384
1922	29	15,783	15,754
1923 (First 6 months) ..	23	8,363	8,340

Besides the Sicilian industry there is also the Societa Anonima L'Appula, which has plants in Italy proper, at Vercelli and Linate, whose combined output of citric acid for the year 1922 reached 447 metric tons. These two plants, however, are capable of producing as much as 1,200 tons per annum.

"Facts Regarding Pharmaceutical Promotion", a paper read by S. DeWitt Clough of Abbott Laboratories, Chicago, before the annual meeting of the American Drug Manufacturers Association in New York, recently has been published in the form of a pamphlet.

Insulin prices were reduced May 15 by British Drug Houses, Ltd.; Boots Pure Drug Co., Ltd. and Burroughs, Wellcome & Co., from 6s 8d to 4s 8d for each ten doses of 100 units. The new English prices figure out about 5½d per dose.

NEW NARCOTIC ALLOTMENTS ON JULY 1

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 2.—Control of importations of crude narcotic materials will be more flexible during the fiscal year beginning July 1, as compared with the system of the board during the current fiscal year, according to an announcement by Col. L. G. Nutt, secretary, Federal Narcotics Control Board. The new plan is to allow the importation of crude opium and coca leaves on the basis of sales of manufactured narcotics in the case of each manufacturer. These sales are limited by the Harrison Act to the legitimate needs of the trade as importations of crude narcotics are limited by the Jones-Miller Act to the scientific and medicinal requirements of the country. During the past year or two some narcotic drug manufacturers did not dispose of their allotments of imported crude materials, while some others are reported to have been in a position to use more than their allotments, if more could have been obtained. This new policy will enable drug manufacturers to take advantage of the market conditions in buying their crude material, and at the same time place the manufacturer in a more advantageous position in regard to competition in the world's markets.

MERCK WINS ST. LOUIS BOWLING CUP

The team of Merck & Co. in St. Louis won the 1923-24 cup of the St. Louis Drug and Chemical Bowling League with 69 games won and 36 lost. Other teams finished in the following order: Meyer Bros. Drug Co., Mallinckrodt Chemical Works, Rexall Drug Stores, Sherwin-Williams Co., Monsanto Chemical Works, J. S. Merrell Drug Co. Individual high averages were rolled by Krill of Rexall, 174.6; Drumm of Merck, 174.5; Schulte of Rexall, 174.4; Brinkman of Merck, 173.9; Le Page of Meyer Bros. 173.2; Hartman of Monsanto, 172.5; Finnegan of Meyer Bros., 171.8; Woker of Merck, 171.5; Krapf of Merck, 170.4; Davis of Meyer Bros., 170.3; Martin of Mallinckrodt, 170; Schlueter of Meyer Bros., 169.8. High individual score was won by Le Page with 267, and high team individual by Meyer Bros. with 1011.

ITALIAN TARTARIC COMBINE DESCRIBED

Superfos Co., New York, has issued a booklet describing its tartaric and citric acid connection in Italy. The New York house is the sole agent in the United States for the new Italian trust, composed of L'Appula, Societa Industria Acido Tartarico, Casale Monferrato, and Fabbrica Chimica Lombarda. The new combine which comprises all the tartaric producers in Italy uses the name Societa Anonima L'Appula, and was formed originally about a year ago through the efforts of Sig. Paolo Frigerio, dean of the Italian chemical industry, who is president of the new corporation. The five factories for tartaric acid production are situated in the wine district of Appulia, Piedmont and Lombardy. The combine also owns two plants for the production of citric acid.

Investigations for the establishment of international standards for biological stains have brought to light that stains prepared in Germany before the war and since the war were not specially prepared for biological purposes, but are textile dyes specially packed and labeled for biological work.

The Federal Trade Commission was denied a petition in the United States Circuit Court of Appeals for a rehearing in the case, against John Bene & Sons, Brooklyn manufacturing chemists, which recently was decided in favor of the manufacturers.

Cyaco Chemical Co. has moved from 126 Maiden Lane and is now located at 112 Fourth ave., New York.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 1737

CRUDE DRUGS IN KEEN COMPETITION

Holders Unloading Before New Crops Arrive—Caraway and Celery Seeds Lower—Mandrake Root Easier—Powdered Asafoetida Temporarily Scarce—Curacao Aloes Lower—Wahoo Bark Easier—Cramp Bark, True, Lower—Elm Bark, Select, Softens

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Asafoetida, Powd., 4c lb.	Prickly Ash Berries, 2c lb.	Cramp Bark, True, 3c lb.	
Damiana Leaves, 1c lb.	Rhubarb Root, Powd., 1c lb.	Elder Flowers, 1c lb.	
Lobelia Herb, 3c lb.	Saffron Flowers, Am., 2c lb.	Elm Bark, Select, 1c lb.	
		Henna Leaves, Powd., 1c lb.	
		Malva Flowers, blue, 2c lb.	
Aloes, Curacao, 1/2c lb.		Mandrake Root, 1c lb.	
Angelica Root, 1/2c lb.		Wahoo Bark, Root, 5c lb.	
Arnica Root, 3c lb.			
Caraway Seed, Dutch, 2c lb.			
Celery Seed, 1c lb.			
Chamomile Flowers, Hung., 1/2c lb.			
Cohosh Root, Blue, 1/2c lb.			

Trend of the Market

	Last	Last	Last	War	Pre.
	Today	Week	Month	Year	War
Aconite Root, U.S.P.	\$32	\$39	\$44	\$35	\$90
Buchu Leaves, Short .....	.76	.76	.78	1.00	4.00
Cantharides, Russian ....	.90	.90	.90	1.75	9.00
Cocculus Indicus .....	.03	.03	.03 1/2	.03 1/2	.85
Ergot, Spanish .....	.31	.31	.31	.52	4.50
Insect Powder, pure .....	.63	.63	.63	.67	1.00
Ipecac, Cartagena, powd. ...	2.10	2.10	2.10	1.90	4.50
Nux Vomica .....	.05	.05	.05	.06 1/2	14 1/2
Opium, gum	9.00	9.00	9.00	7.00	30.00
Rhubarb Root, H. D. ....	.30	.30	.30	.43	1.75
Tragacanth, No. 1, ribbon ...	1.20	1.20	1.20	1.52	6.00
Wild Cherry Bk., thin nat. ...	.11	.11	.11	.10	.21
Average	1.32	1.32	1.34	1.27	5.23

Orders during the past week have been numerous, but small in volume, and with a continuance of this sort of demand, holders of spot material cannot see any possibility of reducing their stocks materially within the next month or so. Prices are being shaded in order to turn over the material before the arrival of new crop goods. Prices asked in the country are generally somewhat lower than spot values, and on the basis of replacements, the present spot prices appear to be slightly high. However, cost of the material has to be figured in each case, and on a downward market, little loss as possible is always to be kept in view, according to several crude drug traders. Prices during the past month show further declines according to the average price chart. Buying of American botanicals from Europe has fallen off during the past month compared with March and April. Some spot scarcities still exist, and in a few instances, the market is entirely devoid of material.

Aconite Root—Easy at 39c@41c lb. spot as to seller, and leaves 10c@12c lb.

Agar Agar—Spot remains firm at \$1.55@1.60 lb. for No. 1 material, and \$1.30 lb. for No. 3. Shipment is also firm, and a few days ago four separate cables were received on the same day as follows: Kobe No. 1, \$1.17 lb. c.i.f. New York, \$1.22 lb., \$1.28, and \$1.30 lb. This condition indicates, somewhat, the smallness of stocks in Japan, since each seller has only a few bales to offer at what he thinks is the market price.

Aloes—Curacao lower at 9c@9 1/2c lb. spot, and Cape 8 1/2c@9c lb.

Angelica Root—Has declined and now quoted at 12c@13c lb. spot.

Arrowroot—St. Vincent quoted lower at 13c@14c lb. spot owing to small demand and keen competition for the available business.

Asafoetida—Powdered higher at 40c@42c lb. spot. As soon as new material is ground, the price is expected to drop back to 36c lb. Whole in good supply at 19c@20c lb.

Balsams—Fir Oregon quoted in small demand at \$1.35 @ \$1.40 gal. spot as to seller and quantity with the possibility of shading these figures on firm business. Fir Canadian, \$12.50 gal.

Buchu Leaves—Quoted on spot at 76c@85c lb. as to seller and quality. Reports are heard that some material, containing a large percentage of stems, is being offered at low prices.

Buckthorn Bark—Lower at 5 1/4c@6c lb. spot.

Caraway Seed—Dutch sharply lower at 19 1/2c@20c lb. spot with new crop material quoted at 11 1/4c lb. c.i.f. New York. African, 19c@20c lb.

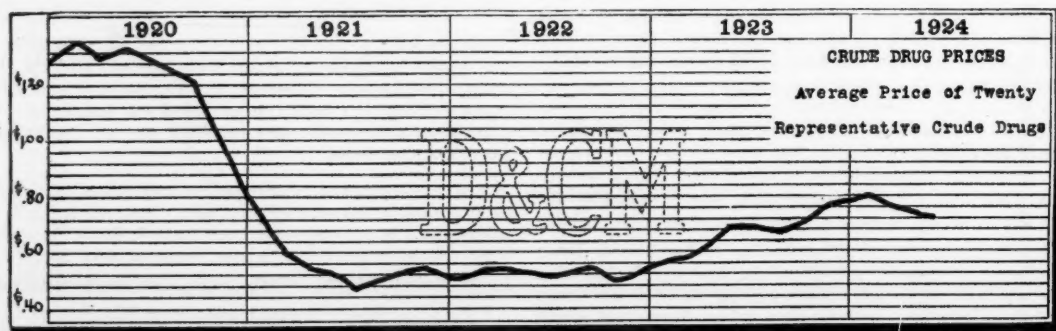
Cascara Sagrada—Past year's peel named at 33c@34c lb. spot, and 1920-22 bark at 35c@37c lb. A sale of 1,000 pounds of old bark was made on spot last week at 35c lb. Little interest is being manifested in the new peel by large consumers.

Celery Seed—Has declined again and now quoted at 28c@29c lb. spot. Statistical position strong, however.

Chamomile Flowers—Hungarian lower at 7c@8c lb. spot, and Roman 65c@70c lb. as to seller and quantity.

Cohosh Root—Blue easier at 12 1/2c@13 1/2c lb. spot, and black 11c@13c lb.

Cramp Bark—True lower at 32c@34c lb. spot, and so-called 7c@8c lb.



Damiana Leaves—Higher at 13c@14c/lb. spot, although 12½c/lb. can be done in a big way.

Elm Bark—Select lower at 25c@27c/lb. spot, and grinding 14c@15c/lb.

Gentian Root—Quoted at 9c@10c/lb. spot as to seller with replacements about equal to spot values.

Insect Powder—Named at 63c@65c/lb. spot as to seller with new crop flowers named at 39c/lb. c.i.f. for July-Aug. shipment.

Japan Wax—Quoted easy at 23c@24c/lb. spot. Last week 200 cases were imported at New York, but this arrival has been sold en route, and will, therefore, pass directly into consumption.

Lobelia Herb—Sharply higher due to scarcity and now quoted at 35c@37c/lb. spot.

Mandrake Root—Lower at 19c@20c/lb. spot with shipment named at 15c/lb. f.o.b. country.

Prickly Ash Berries—Higher at 14c@16c/lb. spot.

Rhubarb Root—Whole named at 30c@32c/lb. spot with 29½c/lb. quoted in big way. Powdered, 36c@39c/lb.

Saffron Flowers—Spanish in small demand at \$42.00 @ \$43.00/lb. spot. Importers are not taking on new supplies owing to high cost asked from abroad. American higher at 82c@84c/lb.

Valerian Root—In active demand at 10c@11c/lb. spot as to quantity.

Wormseed—Levant firm at \$5.00@5.25/lb. spot, and American 8½c@9c/lb.

JAVA'S WHITE PEPPER SALES LARGER

Black Pepper Exports Decline—Bulk of Shipments Come to United States

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Amsterdam, Holland, May 17—A big increase in Java's exports of white pepper in 1923 over previous years is shown in Government reports. In 1921 the total shipments amounted to 1,825 tons, in 1922 to 1,555 tons, and in 1923 to 2,210 tons. The bulk is sent to the United States (873 tons last year, against 738 tons in 1922 and 640 tons in 1921). The United Kingdom is the next large importer with 847 tons in 1923, 318 tons in 1922 and 91 tons in 1921.

Black pepper exports dropped from 10,108 tons in 1922 to 7,972 tons last year. In 1921 the exports were 15,309 tons. The United States is the biggest importer, having bought 3,481 tons last year, compared with 4,580 tons in 1922, and 9,640 tons in 1921. Shipments to Singapore (acting as a distributing center) dropped from 4,580 tons in 1922 to 1,540 tons last year.

The market of black pepper at Batavia was very active during the last quarter of 1923. The upward tendency at the close of September continued in October, especially as it appeared that large parcels of the new crop had been shipped abroad. Prices for November-December delivery were maintained at guilders 22.50 to 22.75 per picul. Samarang had bought large quantities of November-December, and as it was doubtful whether all the contracts would be fulfilled, quotations broke at the end of October and early in November. This falling off, however, did not last long, prices showing a rapid advance on a brisk demand from Europe.

Taking April, 1923, as 100 per cent representing the sales of wholesale druggists, the New York Federal Reserve agent in the monthly review of credit and business conditions gives the following comparisons of April sales for the last five years: 1920 average 87; 1921 average 83; 1922 average 87; 1924 average 112.

CANADIAN PROPRIETARY MEN MEET

(Special to DRUG & CHEMICAL MARKETS)

Montreal, Canada, June 4.—At the annual meeting of the Proprietary Articles Trade Association of Canada, held in Windsor Hotel, Montreal, and concluded on May 30, Hon. Henry Miles, M.L.C., Montreal, of The Leeming Miles Co., Ltd., and W. J. Fraser, of Northrop & Lyman Co., Ltd., Toronto, were elected honorary presidents for the coming year, and L. G. Ryan, of the Wingate Chemical Co., Ltd., Montreal, was chosen president. Other officers elected are: First vice president, T. E. Milburn, of T. Milburn Co. Ltd., Toronto; secretary-treasurer, John Donaghy, of the Leeming Miles Co., Ltd., Montreal; board of control, chairman, H. Lawrence Davis, of Davis & Lawrence Co. Montreal and New York; J. W. McKee, of Dodds Medicine Co., Ltd., Toronto; Henri Lanctot, of Rougier Freres, Inc., Montreal; E. A. Mackenzie, of G. T. Fulford Co., Brockville, Ont.; F. J. Andrews, of Emerson Drug Co., Toronto and Baltimore; F. King Blair, of Centaur Co., Montreal and New York.

H. B. Thompson, general counsel of the Proprietary Association, United States, represented that association, and Frank A. Blair president of the American association was a guest of honor.

The Canadian wholesale druggists were represented by C. W. Tinling, president of the National Drug and Chemical Co. of Canada, Arthur Lyman, president of Lyman's Ltd., Allan Cameron, of McEwen Cameron Co., Ltd., and J. Charbonneau.

A proposal was put forward during the business sessions, to invite the United States association to hold its annual convention at Montreal in 1925. President Ryan entertained the American visitors at the Beaconsfield Golf Club.

PHILADELPHIA DRUGS LESS ACTIVE

(Special to DRUG & CHEMICAL MARKETS)

Philadelphia, June 4.—The wholesale drug market in the Third Federal Reserve District was not so active in May as it was in April, according to the monthly report of the Federal Reserve Bank of Philadelphia, but the volume of trade was greater than in May 1923. Insecticides, disinfectants and spraying materials are in request, but spring goods are moving rather slowly. Pharmaceuticals and patent medicines are selling in fair volume. Botanical drugs are in demand and patent medicines are moving well. On the other hand, the bar reports, fine drugs and chemicals are not selling as well as they did in April and prices have softened.

In April, according to the bank's statement, wholesale drug sales were 1.9 per cent smaller than in March but 5.4 per cent larger than in April 1923. Stocks at the close of April were larger than at the end of March. The ratio of accounts outstanding to sales was 139.8 in April compared with 136.5 in March and 139.3 in April, 1923.

EXPORTS OF ILLEPE NUTS DECREASE

Exports of illepe kernels (tengkawang nuts), the source of Borneo tallow which is used in making hard soaps and candles, are shipped from Borneo to Singapore whence they are distributed. Shipments for the four years from 1919 to 1922 were as follows:

Year	Tons of 1,000 kilos	Year	Tons of 1,000 kilos
1919	8,578	1921	152
1920	2,915	1922	334

Borneo tallow contains from 70 to 80 per cent of solid fatty acids, and its melting point lies between 34 and 35 degrees Celsius.

The Essential Oil Market

Current Spot Quotations of Essential Oils, 1741, Aromatic Chemicals, 1742

COUMARIN AND VANILLIN CUT BY MAKERS

Demand Slow and Competition Keen—Oil Citronella Steady—Messina Essences Firm, Though Quiet—Oil Cedar Wood Higher—Oil Juniper Berries Lower—Oil Wormseed in Sharp Competition—Oil Eucalyptus Easy—Musk Ketone Scarce

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Oil Cedar Wood, 1c lb.
Oil Citronella, Ceylon, 1c lb.
Oil Limes, Expressed, 10c lb.

Declined

Oil Caraway, 25c lb.
Oil Cloves, 5c lb.
Oil Juniper Berries, U.S.P., 5c lb.
Oil Lemon, Italian, 2½c lb.
Oil Peppermint, Natl., 15c lb.
Oil Sandalwood, E. Ind., 25c lb.
Oil Wormseed, 10c lb.
Coumarin, 35c lb.
Vanillin, 5c oz.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Oil Bergamot	\$3.90	\$3.90	\$3.85	\$2.50	\$7.00	\$5.00
Oil Citronella, Ceylon	.83	.82	.82	.70	.92	.60
Oil Cloves	1.85	1.90	1.95	1.70	3.70	1.40
Oil Lemon, Italian	.82½	.85	.85	.80	1.70	2.00
Oil Peppermint, Nat.	4.10	4.25	4.50	2.65	9.00	2.25
Oil Sandalwood, E. I.	6.25	6.50	6.70	7.85	13.00	5.25
Oil Sassafras, Artif.	.35	.36	.36	.45	1.00	.26
Benzaldehyde, U.S.P.	1.50	1.50	1.50	1.50	5.15	1.50
Coumarin	3.50	3.85	3.85	4.50	31.00	3.10
Methyl Salicylate, Cans.	.47	.47	.47	.57	1.00	.90
Vanillin	.49½	.54½	.54½	.40	.95	.20
Average	2.18	2.27	2.31	2.04	6.83	2.05

Average price of essential oils for May was materially lower than the month previous. The only reason prices did not break sharply, was the general low state of spot stocks, according to several factors in the trade. Recent buying has been from hand-to-mouth with no assurance that it will broaden out to any extent within a week or so. Consumers of orange and lemon appear to have bought fully, and they are now waiting for warm weather to dispose of their goods. While primary markets are still firm on the leading items, some of the minor oils are being shaded so as to turn them over before new crop material comes on the market. Sellers of oils appear to be in a position to hold on for some time to come, and at the present moment no marked selling pressure has appeared in the market.

Essential Oils

Oil Amber—In small demand at 90c@95c lb. spot for rectified, and 70c@75c lb. for crude.

Oil Anise—Spot is unchanged at 55c@57c lb. for U.S.

P. in tins, and 50c@52c lb. for technical goods. Prompt shipment still quoted at 49½c lb. c.i.f. New York.

Oil Bergamot—Coppers quoted at \$3.90@\$4.10 lb. spot as to seller and quantity with replacements fully equal to these figures. Buying has eased off during the week.

Oil Bois de Rose—Quoted easy at \$4.75@\$5.00 lb. spot as to quantity.

Oil Caraway—Has declined and now quoted at \$7.50 @\$7.75 lb. spot owing to easier shipment figures and slow demand from consumers. Stocks, however, are none too plentiful, according to reports.

Oil Cassia—Redistilled named easy at \$2.15@\$2.25 lb. spot as to quantity. Natural named on spot at \$1.60@\$1.70 lb.

Oil Cedar Wood—Has advanced and now quoted at 38c@40c lb. spot as to quantity. Buying active both for spot consumption and export to Germany.

Oil Citronella—Ceylon is firmer at 83c@93c lb. spot in drums as to seller, and 86c@96c lb. in tins. The trade is looking for easier prices on the arrival of new crop goods, but at the present time, the statistical position remains strong. Java firm at \$1.15@\$1.20 lb. in drums.

Oil Cloves—Quoted lower at \$1.85@\$1.95 lb. spot in cans, and \$1.95@\$2.05 lb. in bottles.

Oil Eucalyptus—Quoted easy at 55c lb. spot in drums, and 58c@62c lb. in cases with the possibility of shading these figures on firm business.

Oil Juniper Berries—Quoted lower at \$1.25@\$1.30 lb. spot as to quantity owing to easier shipment figures.

Oil Lemon—Italian quoted slightly easier at 82½c@95c lb. spot as to seller and quantity. Shipment remains firm and stocks on spot are none too plentiful, and with any increase in demand, firmer prices are expected.

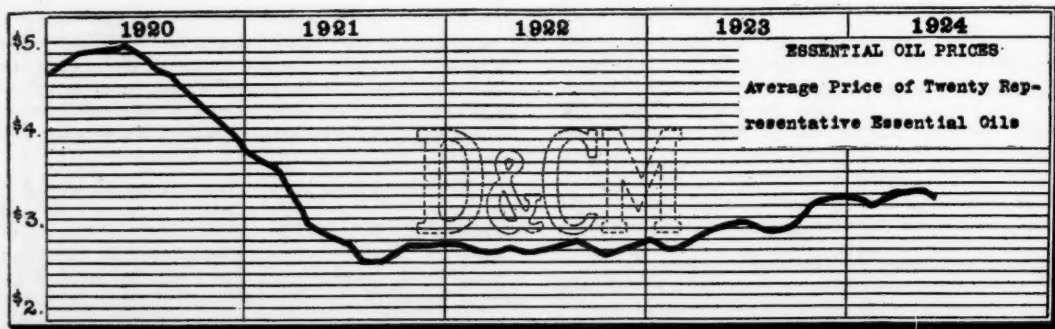
Oil Limes—Expressed higher with holders naming \$2.10@\$2.20 lb. spot.

Oil Orange—Italian firm at \$3.35@\$3.75 lb. spot as to seller. American, \$3.00@\$3.10 lb.

Oil Peppermint—Natural has declined and now quoted at \$4.10@\$4.30 lb. spot, and redistilled \$4.40@\$4.60 lb. Spot demand slow, although country is still firm.

Oil Sandalwood—East Indian quoted lower at \$6.25@\$6.50 lb. spot as to quantity.

Oil Wormseed—Has declined and now quoted at



\$5.50@5.75lb. spot with one direction naming \$5.25lb. in small way only.

Vanilla Beans

Bourbon—Quoted scarce at \$12.00@13.00lb. spot.

Mexican—Whole firm, though inactive at the moment, at \$13.00@14.00lb. spot, and cuts \$11.00@11.50lb.

Aromatic Chemicals

Acetophenone—In small demand at \$4.25@4.50lb. spot.

Coumarin—First hands have reduced price and now quote \$3.50@3.75lb. spot as to quantity. Consumption of this item has not improved in proportion to the high prices of vanilla beans.

Methyl Salicylate—In active demand at 45c@47c. spot as to quantity. Resales named at 45c@46c.

Musk Ketone—No supplies available on spot at the moment.

Terpineol—In small demand at 48c@54c. spot for domestic, and \$1.10@1.30lb. for imported.

Vanillin—Quoted lower at 49½c@51c. spot as to quantity by makers. Resales named at 42½c@45c.

The Tin Market

Tin—Market is easier with Straits named at 40½c. spot; standard, 40¼c.; and 99 per cent, 40c. Arrivals thus far this month have been 4,845 tons at Atlantic ports, 140 tons Pacific; and 4,677 tons afloat.

ESSENTIAL OIL PRICES FLUCTUATING

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, May 9—The demand for lemon juice has increased. For future delivery the buyers are few and often claim a reduction in price. Sweet orange oil, bitter orange oil, bergamot oil and mandarine juice are little wanted. The table shows the principal fluctuations in April.

	April 10 Lire	April 17 Lire	April 21 Lire	April 28 Lire
Sweet orange oil	145-148	145-149	143-147	143-145
Bitter orange oil	130-137	130-137	130-137	130-137
Bergamot oil	175-182	175-185	182-190	180-190
Lemon juice	37-38	37-39	38-39	38-41
Mandarine juice	318-350	300-350	308-350	308-350

Quotations for other essential oils were as follows per kilo: Angelica root, lire 1,000; angelica seeds, lire 1,300; anis, lire 35; arnica flowers, lire 3,000; absynth, lire 249; Bay St. Thomas, lire 352; eucalyptus, lire 33; basilicum, lire 1,000; Roman chamomiles, lire 2,500; Ceylon cinnamon, lire 380; Ceylon citronella, lire 52; Burma citronella, lire 65.85; thyme, lire 80; Ceylon cloves, lire 356; African geranium, lire 440; sandalwood, lire 400; lemon-grass, lire 50; petit grain, lire 280; lavender oil, lire 195; pressed Calabrian lime juice, lire 70; Piedmontese peppermint, lire 195; Italian rose, lire 3,800; French rosemary, lire 24.50; Italian rosemary, lire 24; mustard seed, lire 250; ylang ylang, lire 800.

During 1923 the exports of lemon juice amounted to 635,179 kilos, valued at 15,666,543 lire; orange oil, 90,635 kilos, 8,090,807 lire; bergamot oil, 190,391 kilos, 19,716,715 lire; for mandarine oil, 3,738 kilos, 579,079 lire; mint oil, 7,749 kilos, 966,900 lire; rose oil, 57 kilos, 33,050 lire; deterpenized essential oils, 928 kilos, 107,681 lire; and terpenes of essential oils, 483 kilos, 2,200 lire.

Edward T. Beiser, Riverside, Conn., manufacturer and importer of perfumers' materials, has returned from a seven months trip with Mrs. Beiser through the Bahamas, Cuba and various points in South America.

The wife and daughter of Julian W. Lyon, New York, essential oil and crude drug broker, returned, recently, on the steamship "Giuiseppi Verdi" from Southern Europe, where they spent the Winter.

ESSENCES FIND A READY MARKET

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Catania, Sicily, Italy, May 6—The demand for essences from dealers in Continental Italy is small, and limited to lemon juice, sweet orange oil, bitter orange oil and bergamot oil. Foreign buyers, owing to the still high value of the dollar (22.75 lire) of the English pound sterling (97.50 lire), of the French franc (1.45 lire), and of the German gold mark (about 4.50 lire), are still placing good orders. The following table shows the fluctuations in prices per Sicilian pound:

	April 22 Lire	May 6 Lire
Lemon juice	8.50-9.10	9.60-9.70
Sweet orange	39.15-39.45	41.10-41.50
Bitter orange	33.15-33.90	35.25-36.50
Mandarine	83.95-85.20	83.75-85.20
Bergamot oil	50.20-52.00	52.00-55.00

The prices of old and new lemon rose sharply, owing to the ease of placing the product with foreign buyers. The quotations for sweet orange oil also were increased, although not in the same proportion as lemon juice. Bitter orange oil also advanced in price owing to national and foreign demand. Mandarine oil declined slightly owing to the anxiety of sellers to dispose of stocks. Bergamot oil had a fair recovery in price through the better demand on the part of exporters and foreign merchants.

FIGHTING NEW YORK SACCHARIN BAN

A ban on the use of saccharin in beverages and soft-drinks by the New York City Board of Health last August, has resulted in several court actions by saccharin users. Three or four cases are pending in the courts as the result of the recent attempts by the health authorities to enforce the ruling this Spring under their police power. Agitation against saccharin in New York is reported initiated by a soft-drink manufacturer, close to political circles, who advertises his goods as made exclusively with cane sugar. The trade is awaiting decision in one of the suits.

A special grade of oil sandalwood suitable for the Japanese trade is being manufactured at Bangalore and Mysore City, Mysore, India, according to the "Chamber of Commerce Journal", which says: "During last year 750 tons of sandalwood were utilized in extracting the oil, compared with 508 tons in 1922. The Mysore Government has been responsible for the present encouraging position of this industry. Vast forests still remain to be exploited."

The National Association of Manufacturers of Fruits and Flavoring Syrups held its annual meeting, recently, at the Hotel Pennsylvania, New York, and elected the following officers: President, Durbin Richardson, of Richardson Corp., Rochester, N. Y.; treasurer, W. T. Hankey, of Cleveland Fruit Juice Co., Cleveland; financial secretary, F. L. Fisher, of Zipp Manufacturing Co., Cleveland.

Clarence Morgan & Co., Chicago, announce that they will terminate their sales agreement with the Belgian Trading Co., New York essential oil and aromatic chemical importers and manufacturers, effective Sept. 15 next. The Morgan company recently gave up the sales agencies in the Chicago district for the Tartar Chemical Co. and the Seydel Chemical Co.

The Foreign Markets

Imports of Drugs and Chemicals, page 1745

HAMBURG SELLING AFFECTS LONDON

Cascara for Forward Shipment *Easier*—Japanese Mint Oil and Canada Balsam *Lower*—Jamaica Sarsaparilla and Castor Oil *Higher*—Citric Acid *Firmer*

(Special Cable to DRUG & CHEMICAL MARKETS)

London, June 4—The heavy sales of drugs and chemicals in Hamburg, forced by the inability of holders to obtain financial help to carry stocks on hand, are affecting the London market adversely. Trading is quiet. Higher prices are asked for Jamaica sarsaparilla and castor oil. The market is firmer for citric acid and phenazone.

Easier prices are announced for cascara sagrada for forward shipment, salicylic acid, aspirin and oxalic acid.

Quotations are lower for Japanese mint oil, cuttle fish bone and Canada balsam.

London, May 21. (By Mail)—The general position of our Drug & Chemical Markets, which showed a marked improvement last week, has since suffered a temporary set-back by the disturbing political events on the Continent and the further relapse in the value of the franc. Since the Budget reduction in the duty, sugar has undergone a further heavy decline in price almost amounting to a slump and the revised and more abundant Cuban estimates have added to the depression.

In view of the lower price of opium, induced by the more favorable reports from Asia Minor of the spring sowings, morphine makers have reduced their prices for these salts and codeine by about 1s 3d per oz. Menthol has been offered freely from the Continent and is down fully 5s. per lb. on the week. Camphor has likewise come over lower from the East and slabs have suffered a further reduction of 2d. per lb. Jalap is scarce and dearer on the spot and the new crop will come upon a good market. Citric and tartaric acids, chiefly the latter, are decidedly firm on the warmer weather conditions and the regular seasonal demands being good. Agar agar is in steady demand at 5s. 6d. to over on the spot. Codliver oil reports from Finmarken continue favorable, and the output of this lighter 'summer oil' being unusually heavy accounts in large measure for the recent depression in Bergen.

Pyridin continues its upward trend while on the other hand carbolic acid crystals have again receded. Bromides are firming up after the recent decline, and there is a good enquiry for the ammonium and soda salts. Japan mint oil is depressed and lower owing to considerable quantities being re-offered from the Continent, mostly held by speculators. Balsam tolu at 6s. 9d. per lb. is lower. Arsenic is moving in buyers' favor.

Foreign trade lists of interest to the drug, chemical, and allied industries have been compiled by the Commercial Intelligence Division, Department of Commerce, and can be secured at local offices of the Bureau of Foreign and Domestic Commerce or direct from Washington. The lists contain names of importers and dealers in foreign countries of drugs, chemicals, medicines, pharmaceutical preparations, and the like, with information on size and importance of the firms listed. The lists are furnished without charge.

FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling)	\$4.866	\$4.331
France (franc) .....	.193	.053
Italy (lira) .....	.193	.043
Germany (mark) per hundred	23.80	2.94
Czechoslovakia (crown) per hundred	20.30	.0901
Poland (mark) per hundred	23.80	.403
Japan (yen) .....	.492	.374
Holland (florin) .....	.193	.136
Spain (peseta) .....	.193	.047
Belgium (franc) .....	.193	.176
Switzerland (franc) .....	.268	.137
Norway (krone) .....	.268	.265
Sweden (krone) .....	.268	.168
Denmark (krone) .....	.424	.328
Argentina (peso) .....	.324	.109
Brazil (milreis) .....	.486	.305
India (rupee) .....	.789	.521
China (Silver dollar—Hongkong)	1.082	.713
(Tael—Shanghai, silver)	1.156	.745
(Tael—Peking, silver)		

CAPITAL NEEDED IN COD FISHERIES

Curers and Exporters Handicapped by Financial Conditions in Norway

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Bergen, Norway, May 17—The prices at which codliver oil for export will be offered during the next few months will depend principally on the financial ability of curers and exporters to hold on to their stocks, rather than the quantity of the catch itself. The total output of the Lofoten Fisheries for five years with regard to official records was as follows:

	Medicinal Oil steam-refined in 100 Litres	Liver for other oils in 100 Litres
1924	36,788	4,151
1923	35,291	4,345
1922	27,682	3,230
1921	29,274	5,220
1920	18,371	2,450

The total figures of the fisheries from Jan. 1 are:

All winter fisheries, Lofoten included, April 26	72,641	14,036
Finmarken Spring Fisheries, April 26, 1924	6,315	1,568

	total	78,956	11,305
Compared with 1923, April 28,	69,167	14,036	
1922, April 29,	60,665	10,390	
1921, April 23,	50,283	7,884	
1920, April 24,	45,263	4,558	

The quantity of codliver oil exported during 1924 was, on April 19.

Steam-refined medicinal non-freezing	22,680 bbls.
" medicinal crude	600 bbls.
" medicinal bright	1,394 bbls.
Tanner's Bright-brown boiled, industrial ..	3,509 casks
Tanner's Brown boiled, industrial	2,927 casks

The quantity of cod oil cleared through the American Consulate at Bergen, for export to the United States was as follows:

February	Medicinal oil	14,250
	Industrial oil	3,935
March	Medicinal oil	48,600
	Industrial, none	
April	Medicinal oil	31,600
	Industrial, none	

While the best catch during the first week in May seems to have been made in the eastern districts of Finmarken, the latest telegrams give the impression that the fish are moving westwards. The official reports term the prospects as "very good all over the whole territory of Finmark." With regard to steam-refined medicinal codliver oil, and liver for other oils, the totals of the country's fisheries of this year up to May 3 are as follows:

	1924	1923	1922
Medicinal oil (in 100 litres)....	83,333	72,263	64,081
Liver for other oils (in 100 litres)	12,817	15,415	12,130

One must go back as far as to the reports of 1912 to find a better year than 1924. Total exports to April 26 were:

Steam-refined medicinal non-freezing codliver oil	24,115 bbls.
Steam-refined medicinal crude codliver oil	640 bbls.
Bright medicinal codliver oil	1,450 bbls.
Tanner's bright-brown boiled codliver oil	3,868 casks
Tanner's brown boiled codliver oil....	2,993 casks

The market prices (nominal) on dates named follow:

Steam-refined medicinal	Bergen		Aalesund		Kristiansund	
	April 29	May 2	Apr. 26	May 3	May 2	May 2
	Kro.	Kro.	Kro.	Kro.	Kro.	Kro.
Best non-freezing, per 100 kilo	180	120	128	125	...	...
Best, crude	per 100 kilo	115	110	115	110	115
Crude, Finmark, ..per 108 kilo	108	105	110	105	...	...
Industrial						
Tanner's Brown, boiled 100 kilo	88	88	...	...	...	75
Tanner's bright brown, boiled 100 kilo	...	...	...	...	...	100

CANADA'S CHEMICAL TRADE EXPANDING

The production of chemicals and allied products by Canadian plants during 1923 was valued in excess of 106.5 million dollars according to a preliminary estimate made by S. J. Cook, Chief of the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics. Exports of chemical products were valued at 15.7 million dollars, and imports amounted to 26.1 million dollars.

More than 124 million dollars' capital was invested in Canadian companies operating 466 plants, and employment was furnished to about 14,600 employees. Salaries and wages paid totalled 17.8 million dollars, and the cost of materials used was about 52.9 million dollars. The value added by manufacturing or the difference between the selling value of the products and the cost of raw materials used in manufacture was 53.5 million dollars. Increases were noted in the amount of capital employed, the number of employees, payments of salaries and wages, cost of materials and value of products, as well as in the value of imports and exports.

Nearly 82 per cent of the 1923 chemical exports went to the United States, United Kingdom and Mexico in the order named and nearly 13 per cent was shipped to Newfoundland, Japan, British West Indies, Australia and New Zealand. On the other side, more than 98 per cent of Canada's import business in chemical products was from seven countries with the United States leading and the United Kingdom next, followed by Germany, France, the Netherlands, Belgium and Switzerland. The remaining 2 per cent of Canada's chemical import trade was drawn from more than a score of countries.

Wholesale prices, according to the Bureau of Labor Statistics index, declined 1 per cent during April and reached the lowest point since May, 1922. Metals, foods and chemicals declined.

HEAVY CHEMICALS DULL IN ENGLAND

Keen Competition Reflected in Cut Prices—Textile Chemicals Neglected—Little Business in Arsenic—Prices of Sodas for Home Trade Steady.

(Special Correspondence to DRUG & CHEMICAL MARKETS)

London, May 24.—The general state of the chemical markets shows little change in the month and prices for spot goods are mostly unaltered although one or two products of a seasonable character show an upward tendency. A feature has been the entire neglect by buyers of some of the "heavies." This is most marked in textile chemicals, which industry is still anything but flourishing. The keen competition is reflected by the cut prices at which orders are booked. In all directions there is generally a weak spot holder who is glad to unload by cutting the market. Many items are quoted well above actual selling prices.

Buyers have no confidence in the market and for this reason and possibly on account of financial stringency, are placing orders for immediate requirements only. One seldom hears today of contract business for forward delivery. Despite the lack of good business, prices on the whole are not likely to fall to any appreciable extent.

Arsenic has been a nervous item and little business has been done for some time. The Cornish mines are now asking about £52 a ton which shows a good fall on the month. Formaldehyde is dull and cheaper at about £57 on spot. Acetic acid is steady, but quiet. Acetone is much easier at about £97 on spot.

The British makers of soda products keep their prices for home trade very steady with the exception of prussiate which is dull and cheaper again. Yellow prussiate of potash is also down and meeting with hardly any good business.

Pyridine has been a very active market for some weeks following upon its use making methylated spirit unpotable. The price rose from 13s. to 24s. per gallon with supplies scarce and has now gone back to 23s. and stands steady with little about.

Carbolic acid crystals have lost ground and are now quoted in quantity f.o.b. about 6½d. per lb.

DYE AGREEMENT LIKELY TO FAIL

(Special Correspondence to DRUG & CHEMICAL MARKETS)

London, May 24.—The terms of the proposed dye agreement with Germany are kept secret, in spite of protests from dye manufacturers, and from consumers, chemists and merchants. It is considered doubtful if the agreement ever will mature. It is understood that the British Dyestuffs Corp. would, under the agreement, act as selling agents for the Interessen Gemeinschaft, which represents all the dyemakers in Germany, thus giving the British makers a water-tight monopoly in this country.

The provisions of the Prohibition Plebiscite Act, of 1915, by which the importation into Newfoundland of medicinal and toilet preparations and flavoring extracts containing two per cent of alcohol was prohibited, on April 12, have been changed to permit the importation of such extracts for culinary use when imported in bottles containing not more than two ounces each. The registration of proprietary medicines is dealt with under the Trade Marks Act, while the formulae of any such preparations would need to be protected in accordance with the provisions of the Patent Act.

Importation of ethyl chloride into Holland is now free of duty, providing it be used in the manufacture of photographic preparations, according to a Government decree.

DYE ANALYSIS BY PURCHASING AGENTS URGED BY DR. PRATT OF MERRIMAC CO.

Insures Textile Manufacturers Against Loss If Product Contains Harmful Impurities—Necessity for Research Work Greater When Dye Tariff Is Reduced in October

(Special to DRUG & CHEMICAL MARKETS)

Boston, June 4.—Dr. L. A. Pratt, director of research of the Merrimac Chemical Co., who led the discussion at the conference on dyes and chemicals at the convention of the National Association of Purchasing Agents, advised purchasing agents for mills, which use dyes and chemicals, to have them analysed in their own laboratory. Dr. Pratt said they should insist on this. He pointed out that by having chemical analysis in their own laboratory the company was insured against loss in case a product contains impurities harmful to the particular process for which it is wanted. He continued:

"It encourages the chemical manufacturer to produce high grade products and to guard the quality with great care. If the price of a high grade commodity is slightly higher than an inferior product, the consumer who knows the analysis knows also whether the higher quality product is worth the difference in price."

Dr. Pratt also called attention to the importance of maintaining the average which has been gained in the manufacture of American dyestuffs, showing that it would be a serious blow to the progress already made if American manufacturers should allow the standard of quality of the dyes they are producing to become lowered. The necessity of continued research was also urged by Dr. Pratt in order that progress should not be interrupted. The automatic reduction in the dyes tariff

which will occur in October of this year will mean closer competition from foreign manufacturers on certain dyestuffs, he said, and it will then be all the more important for American dye manufacturers to watch the quality of their dyes, as there is always a certain attraction to manufacturers in lower cost raw materials.

GERMANS SHIP MOST ALIZARIN DYES

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., June 4.—Imports of alizarin and alizarin dyes during March totaled 20,839 pounds, valued at \$19,428, according to the Department of Commerce. The largest quantity came from Germany, with the second largest amount coming from England, and a small quantity from Italy. The records do not show that any indigo was imported in March.

Imports of all other dyes totaled 382,921 pounds, valued at \$450,449, of which by far the largest quantity came from Germany. Imports of extracts totaled 244,603 pounds, valued at \$23,413, of which the largest amount came from Haiti.

HELLER & MERZ ISSUE PAPER COLOR BOOK

Heller & Merz Co. announces the publication of "Dye-stuff Data for Papermakers". The text of this book is confined to colors in the paper industry, and is a complete treatise on the application in papermaking. The book is being distributed gratis to paper mill superintendents and gives the papermaker in compact form information which could not be gathered readily from the general literature on dyestuffs. It is the result of thirty years' experience with paper mills, and was compiled with the cooperation of paper mill superintendents.

1816 **CHEMICALS** 1924

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ALUMINUM CHLORIDE —
Crystals and liquid, for carbonizing
woolen stock.

Chemicals for Consuming Industries

Heavy Chemicals, page 1716, Tan and Dyestuff, page 1736, Fatty Oils, 1735

CHEMICAL MARKET LACKS DEVELOPMENTS

Marks Time Awaiting Entrance of Buyers—Price Changes Chiefly Downward—Industrial Chemical Price Average Lowest in Ten Years—Low Enough To-Day To Warrant Buying Ahead

No new developments of marked interest were noted in the market for industrial chemicals during the week just past. The interruption of a holiday combined with end-of-the-month dullness, slowed up an already quiet situation. The market marks time awaiting the entrance of buyers to cover for Fall needs. Such price revisions as have been made since the last report, are chiefly downward. An analysis of the market as a whole shows industrial chemical prices on the average at the lowest point since 1914. Based on current production and import costs, prices are low enough to warrant buying ahead. In proportion to commodities generally, chemicals are still far out of line on the low side in spite of the recent corrective movement to lower levels of commodity indexes. Of all groups of products entering general industrial use to-day, chemicals apparently stand at lower comparative levels than any other group.

Agricultural Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Acid Sulfuric, 66%.....ton	\$14.00	\$14.00	\$14.00	\$15.00	\$55.00	\$20.00
Ammonium Sulfate, 100 lbs.	2.70	2.70	2.70	3.20	7.75	2.65
Arsenic.....lb.	.08½	.08½	.10¾	.15¼	.18	.04
Copper Sulfate.....100 lbs.	4.65	4.70	4.90	5.75	20.00	4.50
Paris Green.....lb.	.30	.30	.30	.29	.50	.11
Potash Murate, 80%.....ton	31.10	31.10	34.55	35.55	475.00	39.57
Potash Sulfate, 80%.....ton	41.27	41.27	45.85	45.67	440.00	48.07
Phosphate Rock, 68%.....ton	2.25	2.25	2.25	3.25	11.00	3.00
Phosphate, Acid, 16%.....ton	7.50	7.50	7.50	9.00	21.00	15.00
Sodium Nitrate.....100 lbs.	2.60	2.60	2.60	2.50	5.00	1.90
Average.....	10.652	10.652	11.475	11.976	103.54	13.484

The holidays at the close of the month had little effect upon the volume of business during the week. Buying has been quiet during the week though inquiries have been fair and sufficient to give a slightly better tone than has previously prevailed. Prices of fertilizers have shown little change from previous quotation and except for fish scrap appear to be firm at present levels. Insecticides and fungicides appear to be even weaker than recently owing to the slowness of demand and the lateness of the season.

Fertilizers

Ammonium Sulfate—The situation has shown little change during the week. The market is extremely quiet and prices are steady at former levels. Producers quote bulk at works, \$2.65 and single bags, \$2.75. Export business is named at \$2.60, freight allowed to New York. Resale lots are offered down to \$2.55.

Ammoniates—Fair inquiry but little actual business reported. Tankage is holding at \$2.65@2.75, N. Y. and Chicago, \$2.25@2.35; Fish scrap has eased off owing to small demand and is quoted \$3.00@3.25, works. Only a small amount of herring scrap is available at present, the menhaden season being postponed until the middle of the month. Blood is unchanged, \$3.10@3.20; cyanamide quiet at \$1.90@2.00; steamed bone meal offered at \$25.00 ton, N. Y.

Acid, Phosphate—Little change has been noted in the

market with practically no buying and prices holding around \$7.50@8.00 per ton for 16% material at works.

Phosphates—No activity is reported but competition for passing business is keen and prices are subject to shading. Present quotations are on the basis of \$2.25 ton for 68% Florida pebble; 70%, \$2.50; 75-74%, \$3.75; Tennessee, 72%, \$5.50 ton.

Potash Salts—While this is the in-between season a little business is passing occasionally at the net quotations of the former schedule. The new schedule is still to be announced. Potassium murate named at \$31.10, basis 80%; sulfate, 90%, \$41.27; double manure salt, 48%, \$23.75; manure salt, 30%, \$15.33; manure salt, 20%, \$9.50; kainite, 12.4%, \$6.50.

Sodium Nitrate—With the limited amount of stocks in Atlantic ports, prices are holding firm at the recent higher prices. Demand has not been large and this has prevented any importation for speculation. Present quotations are on the basis of \$2.60@2.65, New York and other Atlantic Ports. Futures, July-Aug. are named at \$2.35@2.40. Resale lots on spot are offered at slightly lower than \$2.60, spot.

Sulfuric Acid—Deliveries are going out on contract with fair regularity though not up to normal in some quarters. Prices are holding the same with makers around New York quoting 60 degree acid at \$9.00@10.00 ton in tanks at works and \$14.00@15.00 ton for 66 degree acid.

Sulfur—Moving in a routine way at unchanged prices. Crude named at \$14.00@15.00 ton at mines. Commercial quoted \$2.00@2.50 in bags.

Lime—Agricultural lime in paper bags quoted at \$10.50 ton at mills. Hy-grade material named from \$10.50@12.50 ton in bags and \$2.00 per 100lbs. in barrels.

Insecticides and Fungicides

Arsenicals—The arsenic market is perhaps a trifle firmer with some sellers unwilling to shade 8¾c. while others are firm at 8½c. Calcium arsenate is none too firm and some cutting of prices is reported though nominal quotations are reported at 11c@12c. Lead arsenate is holding around 19c@20c. for the dry and 11c@12c. for paste. Paris Green is being quoted at 30c. in kegs. Sodium arsenite ranges from 50c@1.20 per gallon according to grade.

Copper Salts—Copper sulfate has been weakening and sales are gradually being made at prices under recent quotations. Carlots are quoted from \$4.50@4.75 and small lots from \$4.75@4.90 for domestic material. Imported material is slow at prices from 4¼c@4½c. Copper carbonate is quiet at present with makers quoting 16½c.

Miscellaneous—Bordeaux mixture is moving at 11c@15c. for 16% according to quantity; corrosive sublimate named at 98c.; formaldehyde, 9¼c@10c. and quiet; para-dichlorobenzene has been improving in demand, 17c@22c.; lime sulfur, 8c@10c. for dry and 15c@16c. gal. for 33° solution; nicotine sulfate, \$1.15@1.30lb.

Experiments in the use of carbon dioxide as an atmospheric fertilizer show that its use has the same tendency as other fertilizers to increase yields. The problem is to find out how it may be profitably used in general fertility practice.

Leather Chemicals

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre. War
Acid, Acetic, 28%	\$3.12	\$3.12	\$3.12	\$3.38	\$17.00	\$1.50
Acid, Formic, 90% .....	.13	.13	.13	.12½	1.50½	.07
Acid, Lactic, 22% dark .....	.05	.05	.05	.04½	.07	.02
Potassium Bichromate .....	.09¼	.09¼	.09¼	.10	.65	.06¾
Epsom Salt, tech.	1.80	1.80	1.80	1.85	3.75	1.00
Sodium Prussiate, Imp. ....	.10	.10	.10½	.16	1.25	.18
Soda Ash, 58% wks.	1.38	1.39	1.38	1.45	4.10	.69
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04¾
Sodium Hyposulfite	2.75	2.75	2.75	8.00	3.75	1.80
Sodium Sulfide, 60% wks. ....	.08½	.08½	.08½	.04¾	1.04	.02¾
Average .....	.956	.956	.956	1.024	3.267	.528

While price changes have been few and far between, the general tendency has been downward in a few items. Bichromates have gradually eased off slightly with resale offering below makers' quotations. Tanners continue inactive and buying is confined mainly to small quantities for immediate delivery.

Acids—Prices are practically unchanged though oxalic is a trifle easier. Formic is named at 12½¢@13¢lb. for 85 and 90% respectively; lactic acid is moving steadily at 5¢@5½¢lb. for the 22% dark and 6¢@6½¢lb. for the light; 44%, dark, 10½¢@11¢lb. and light, 12½¢@13¢lb.; oxalic moving at 10¢@10½¢lb. according to seller; acetic is unchanged and quiet at \$3.12@\$3.37 for the 28% as to quantity in barrels; 56%, \$5.85@\$6.10; glacial, \$11.01 @\$11.76; muriatic is moving carboys at \$1.30@\$1.85 for 20 degree; sulfuric in carboys, \$1.35@\$1.75 as to quantity.

Alkalis—No change is noted in these products. A few industries continue to take their full requirements

while others have been behind since the first of the year. Textile and paper mills have been the least active. Export business is reported to have improved slightly in some quarters. Makers quote contract business in soda ash at \$1.38 for carlots of bags at works; bulk at \$1.25 and barrels, \$1.63, carlots; less than carlots, New York district, \$2.04@\$2.19 in bags and \$2.29@\$2.44 in barrels. Caustic soda in carlots on contract \$3.10 for solid in drums and \$3.50 for ground and flake at works; less than carlot quantities, New York, \$3.76 @\$3.91 for solid and \$4.16@\$4.31 for ground and flake.

Bichromates—Business in bichromates is quiet and dull with consumers operating far below capacity and taking supplies only in small quantities for immediate delivery. Prices have eased off slightly with makers quoting the sodium product at 7½¢@7½¢lb. and the potash, 9¼¢@9½¢lb. according to quantity.

Chemicals—No changes of importance have been noted during the week. Buying has been quiet and featureless. Red arsenic is being held at 15¢@15½¢lb.; alums are moving slowly at 3½¢@3¾¢lb.; for ammonia; sal ammoniac is unchanged for domestic at 7¼¢@8¢lb. and imported easy at 6½¢@6¾¢lb.; domestic Epsom salt is steady, \$1.75@\$2.00 imported at \$1.30. Potassium titanium oxalate, quiet, 25¢@30¢lb.; sodium hyposulfite moving slowly, \$2.75@\$3.00; sodium sulfide, 2¼¢@2¾¢lb. for crystals, 3¼¢@4¢lb. for solid and 4¢@5¢lb. for broken; sodium prussiate is unchanged and quiet at 9¼¢@10¢lb. for imported and 10½¢lb. for domestic; potassium prussiate, yellow, 18½¢@19¢lb.; tanners' syrup held at \$3.46 100 lbs.

Dye and Tan Woods—Although price of imported sumac is firm at \$157@\$160 ton, little interest is being shown at the moment. Mangrove bark is steady at



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\$34@36 ton with some business being transacted for future delivery. Myrobalans, J-1, quiet at \$39@41 ton. Wattle bark is steady with holders naming \$34.50@35.00 ton.

Extracts—Business during the week past has been routine only with cudbear, English, named at 18c@20c lb. Gambier, 25 per cent liquid, is quiet at 10½c@13c lb. Hematine, paste, is in small demand at 9½c@13c lb., and crystals 12c@20c lb. Fair business has been reported in myrobalans, 25 per cent liquid, at 4c@5c lb., and 50 per cent liquid, at 5c@5½c lb.

Oils—No change in consumption from the tanning industry has been reported during the week and demand continues light. Supplies of Newfoundland cod oil appear ample for current requirements at 63c@65c gal. Refined menhaden is in routine demand and unchanged at 61c@63c gal. for light strained. The volume of business in linseed oil continues small with light stocks holding prices at former levels. Less than carlots are quoted 97c gal. Castor oil is quiet at 15½c gal. for No. 3.

Paper Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aluminum Sulfate	\$2.40	\$2.40	\$2.40	\$2.40	\$5.50	\$1.50
Bleaching Powder	1.90	1.90	1.90	1.90	9.50	1.50
Casein	10½	10½	10½	10½	25	20
China Clay, Dom.	10.00	10.00	10.00	15.00	25.00	8.00
Chlorine c/l Cyl. ....	.05½	.05½	.05½	.05½	.30	.08
Salt Cake	20.00	20.00	20.00	25.00	80.00	11.00
Sodium Silicate, 40% ..	.80	.80	.80	.95	1.75	2.00
Soda Ash	1.38	1.38	1.38	1.45	4.10	.69
Sulfur	18.00	18.00	18.00	18.00	65.00	20.00
Rosin F grade	5.90	6.00	5.80	6.15	4.50	20.25
Average	6.015	6.025	6.025	7.235	13.30	5.50

With paper mills entering the period of seasonal inactivity following the quiet months since the first of the year, business in paper chemicals is dull and quiet. Prices appear to have reached their lowest levels and are holding steady at recent quotations.

Alkalis—No change is noted in these products. A few industries continue to take their full requirements while others have been behind since the first of the year. Textile and paper mills have been the least active. Export business is reported to have improved slightly in some quarters. Makers quote contract business in soda ash at \$1.38 for carlots of bags at works; bulk at \$1.25 and barrels, \$1.63, carlots; less than carlots, New York district, \$2.04@2.19 in bags and \$2.29@2.44 in barrels. Caustic soda in carlots on contract \$3.10 for solid in drums and \$3.50 for ground and flake at works; less than carlot quantities, New York, \$3.76 @ \$3.91 for solid and \$4.16@4.31 for ground and flake.

Bleaches—No warm weather has yet been encountered and little heard of stocks being affected. Shipments are slowing up as the summer season approaches but the market has been firmly maintained. Makers quote bleaching powder in carlots at works, \$1.90 in large drums and 25c higher for small drums. Less than carlots at works held at 15c above these prices. Liquid chlorine is moving at unchanged prices with tank car business named at 4½c lb.; carlots of cylinders, 5½c lb.; less than carlots, 6½c lb. and less than ton lots, 7½c lb.

Chemicals—Aluminum sulfate is moving quietly at \$1.30@1.35 for the commercial and \$2.25@2.40 for the iron-free; salt cake is under some competition with quotations ranging from \$18.00@20.00 ton; sodium silicate is moving regularly at 75c in tanks for 40° and 80c@85c in drums; blanc fixe is held at \$75.00@80.00 ton; sodium bisulfite named at 4c@4½c lb. for the dry and \$1.25@1.75 for solution according to strength; satin white named \$1.45@1.50 sulfur named at \$14.00 @ \$15.00 ton at mines; lime quoted from \$7.50@8.00 ton.

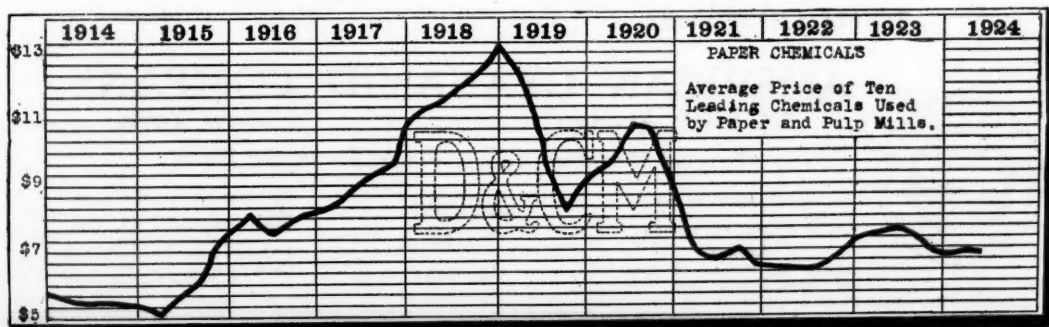
Sizings—Casein is quiet with prices holding at recent levels of 10½c@11c lb. for domestic and imported. Imports at New York last week were 2,185 bags. Rosins have been in fair demand but receipts have been large. Prices have declined for the common grades. Quotations: B, \$5.50; D, \$5.55; E, \$5.70; F, \$5.90; G, H, \$5.95; I, \$6.00; K, \$6.25; M, \$6.30; N, \$6.35; WG, \$7.25; WW, \$7.75, New York.

Rubber Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Antimony Sulfide Crim....	\$3.39	\$3.39	\$3.39	\$3.35	\$4.5	\$3.35
Carbon Bisulfide .....	.06	.06	.06	.06	.50	.10
Carbon Black .....	.12	.12	.12	.15	.30	.14
China Clay, Imp.	16.00	16.00	16.00	16.00	20.00	14.00
Hexamethylene .....	.82½	.82½	.82½	.97	1.35	..
Iron Oxide, Span. ....	.03½	.03½	.03½	.04	.04½	.05
Lithopone .....	.06½	.06½	.06½	.06	.08	.04
Sulfur	3.05	3.05	3.05	2.50	6.50	2.75
Whiting, Dom.	14.00	14.00	14.00	18.00	30.00	11.00
Zinc Oxide, Amer. ....	.08½	.08½	.07½	.07	.09½	.00
Average	3.464	3.464	3.461	3.820	5.931	..

Activity in whiting and white barytes has been the outstanding feature of the rubber chemical market during the past week. Little interest has been shown in the other chemicals with exception of the accelerators, which have been in steady routine demand. Rubber factories appear to be marking time, until consumption catches up with production. Reports are heard that one rubber tire company has reduced prices of their finished product. With lower prices for tires, which ought to be attractive for the consumer, the way will undoubtedly be open for taking on more chemicals. Spot values appear to be resisting pressure to sell, as is



shown by the small number of declines registered during the past month.

Acid—Acetic is in small demand with most of the business confined to dealers. Quoted as follows: \$3.12 @ \$3.37 cwt. for 28 per cent; \$5.85 @ \$6.10 for 56 per cent; \$7.20 @ \$7.45 for 70 per cent; \$8.19 @ \$8.44 for 80 per cent, commercial; \$9.98 @ \$10.23 for 80 per cent, pure, and \$11.01 @ \$11.75 for glacial.

Accelerators—In steady demand with aniline oil named at 16c @ 17c lb. works, and 17c @ 18c lb. spot. Diphenylguanidine is reported firm at \$1.05 @ \$1.15 lb. spot as to quantity. Hexamethylene is active with holders naming 82½c @ 85c lb. spot as to quantity. Litharge is quiet at \$11.50 cwt. Quinoidine is in small demand at the moment at 55c @ 65c lb. spot. Thiocarbanilide is steady at 27c @ 29c lb. spot.

Colors and Compounding Materials—Contracts are moving in good volume; but other than this, business is routine. Aluminum flake is steady at \$23 @ \$27 ton works. Antimony sulfurette is firm at 19c @ 24c lb. spot for golden, and 39c @ 50c lb. for crimson. Asbestine is quiet at \$18 @ \$20 ton. Blanc fixe is in fair demand with holders naming 4c @ 4½c f.o.b. New York. Carbon black is firmly held by first hands at 9c @ 9½c lb. works in c/l. Ordinary, 12c @ 14c lb. spot 1c/l in cases; compressed, 12c @ 14c lb.; and air floated, 14c @ 16c lb. China clay is steady at \$18 @ \$20 ton for imported, and \$22 @ \$25 ton ex-warehouse or \$13 @ \$18 ton works for domestic. Iron oxide is dull at 3½c @ 7½c lb. spot for Spanish, and 12c @ 14c lb. for English. Lithopone is offered freely at 6½c @ 7½c lb. spot. Magnesium carbonate is steady at 8¼c @ 8½c lb. spot, and calcined 5½c @ 6c lb. Talc

holders name \$16 @ \$18 ton works or \$28 @ \$30 ton ex-warehouse for domestic; French, \$40 @ \$50 ton; and Italian, \$60 @ \$80 ton. White barytes is active at \$23 @ \$25 ton works, and \$29 @ \$34 ton for imported. Whiting is in good steady demand at \$18 @ \$20 ton for imported, and \$13 @ \$15 ton for domestic. Zinc oxide is quiet with holders naming 8¼c @ 9¼c lb. spot.

Mineral Rubber—Little activity reported at \$35 @ \$75 ton for 300/315 quality.

Solvents—C.P. acetone is dull at 15c @ 16c lb. works in c/l, and methyl acetone at 70c @ 80c gal. as to quantity. Benzene is easy at 23c @ 25c gal. works in tanks and 28c @ 30c gal. in drums for 90 per cent material. Pure, 24c @ 26c gal. in tanks, and 29c @ 33c gal. in drums. Carbon bisulfide is steady at 6c @ 6½c lb. spot. Sulfur chloride is in small demand at 5c @ 6c lb. spot for yellow, and 6c @ 7c lb. for red.

Sulfur—Demand routine only at \$3.05 @ \$3.30 cwt.; superfine, \$2.50 @ \$2.90 cwt.

Seventeen million pneumatic casings and nearly 24,000,000 inner tubes were in manufacturers' inventories or on the shelves of tire dealers throughout the United States April 1, a survey made by the Rubber Association of America, shows. It is estimated that the 1924 sales of automobile tires will reach 50,000,000, the poll conducted by the association thus revealing that one-third of the pneumatic casings and a large percentage of the tubes expected to be sold were on hand at the end of the first four months of the year.

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small crystals of Yellow Prussiate of Soda and Potash can be produced of equal quality with the large crystals now standard with the trade.

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Textile Chemicals

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acid, Acetic, 28%	\$3.12	\$3.12	\$3.12	\$3.17	\$17.00	\$1.50
Acid Oxalic .....	.10½	.10½	.10½	.12½	.70	.07½
Bleaching Powder	1.90	1.90	1.90	1.90	9.50	1.50
Copper Sulfate	4.70	4.75	4.90	5.75	20.00	4.30
Epsom Salt, U.S.P.	2.16	2.10	2.10	2.25	4.25	1.50
Glauber's Salt	1.20	1.30	1.30	1.25	2.50	.80
Potash, Caustic, Imp. ....	.06½	.06½	.06½	.07½	.87	.12
Soda Ash, 58% wks.	1.38	1.38	1.38	1.45	4.10	.60
Soda Caustic, 76% wks.	3.10	3.10	3.10	3.16½	9.50	1.80
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04½
Average	1.783	1.783	1.803	1.830	4.800	1.42

Announcement of a lower price schedule for tin salts for June, following the decline in tin prices during May, has been the most prominent change in textile chemicals during the week. Bichromates are easier and round lots are offered at slightly lower prices. Other chemicals are practically unchanged and quiet owing to the lack of activity in the textile field.

Acids—Prices are practically unchanged though oxalic is a trifle easier. Formic is named at 12½¢@13¢lb. for 85 and 90% respectively; lactic acid is moving steadily at 5¢@5½¢lb. for the 22% dark and 6¢@6½¢lb. for the light; 44%, dark, 10½¢@11¢lb. and light, 12½¢@13¢lb.; oxalic moving at 10¢@10½¢lb. according to seller; acetic is unchanged and quiet at \$3.12@\$3.37 for the 28% as to quantity in barrels; 56%, \$5.85@\$6.10; glacial, \$11.01@\$11.76; muriatic is moving carboys at \$1.30@\$1.85 for 20 degree; sulfuric in carboys, \$1.35@\$1.75 as to quantity.

Alkalis—No change is noted in these products. A few industries continue to take their full requirements while others have been behind since the first of the year. Textile and paper mills have been the least active. Export business is reported to have improved slightly in some quarters. Makers quote contract business in soda ash at \$1.38 for carlots of bags at works; bulk at \$1.25 and barrels, \$1.63, carlots; less than carlots, New York district, \$2.04@\$2.19 in bags and \$2.29@\$2.44 in barrels. Caustic soda in carlots on contract \$3.10 for solid in drums and \$3.50 for ground and flake at works; less than carlot quantities, New York, \$3.76@\$3.91 for solid and \$4.16@\$4.31 for ground and flake.

Bichromates—Business in bichromates is quiet and dull with consumers operating far below capacity and taking supplies only in small quantities for immediate delivery. Prices have eased off slightly with makers quoting the sodium product at 7½¢@7½¢lb. and the potash, 9½¢@9½¢lb. according to quantity.

Bleaches—No warm weather has yet been encountered and little is heard of stocks being affected. Shipments are slowing up as the summer season approaches but the market has been firmly maintained. Makers quote bleaching powder in carlots at works, \$1.90 in large drums and 25¢ higher for small drums. Less than carlots at works held at 15¢ above these prices. Liquid chlorine is moving at unchanged prices with tank car business named at 4½¢lb.; carlots of cylinders, 5½¢lb.; less than carlots, 6½¢lb. and less than ton lots, 7½¢lb.

Chemicals—Makers are quoting lower prices for tin salts for June with crystals down to 31½¢@32¢lb.; bichloride, 12¢lb. and tetrachloride, 24½¢lb.; copper sulfate has taken an easier turn and small lots are obtainable at \$4.65@\$4.75; ammonia alums range from 3½¢@3½¢lb.; sal ammoniac is unchanged at 7½¢@8¢lb. for domestic and imported, 6½¢@6½¢lb.; Glauber's salt is selling from \$1.20@\$1.70 according to seller and quantity; imported material is named at 90¢@\$1.00; Epsom salt is unchanged and quiet, \$1.75@\$2.00 for

domestic technical and \$1.30 for imported; U.S.P. salt quoted \$2.15@\$2.50 for domestic and \$2.00@\$2.25 for imported; potassium permanganate is quiet at 14¢@15¢lb.; sodium prussiate is holding around 9½¢@10¢lb. for imported and 10½¢lb. for domestic; yellow prussiate of potash, quiet, 18½¢@19¢lb.; sodium nitrite is stronger at 8½¢@9¢lb. as to grade; sodium sulfide crystals are in fair demand at 2¼¢@2¼¢lb. at works; lead acetate is steady, 14½¢@15¢lb.; sodium acetate is slightly lower at 4½¢@5¢lb.

Starches and Dextrines—Prices are generally unchanged with demand continuing along the same conservative lines that has characterized the market for a number of weeks. British gum is in light demand at \$3.99@\$4.14 per 100 pounds. Technical albumen is quoted \$1.25lb. although shading of this figure is reported. White corn dextrine is quoted \$3.64; potato, 7½¢lb. Powdered corn starch is unchanged at \$3.17 per 100 pounds. Tapioca flour is quoted 6¢@6½¢lb. for the higher grades.

A well known knit goods manufacturer calling on the Boston dye trade this week stated: "It is no wonder that the demand for dyes is light for the present craze for light colored hosiery on the part of the younger women today, which has displaced the use of the darker hosiery to a very great extent, has curtailed the use of dyes probably more than is generally realized. Why to color a vat of dye for the stockings known as 'nude' and 'atmosphere' requires only as much dye as can be placed on a five cent piece. We do not know how long this light colored stocking fad will continue so we purchase dyes in small quantities."

Francis M. Smith, head of West End Chemical Co., who is known as the Borax King, says: "The young man of today has greater opportunities than in the preceding generation. It is now a world proposition, and the world is before the young man of ability and grit." Mr. Smith lost a fortune of \$20,000,000 when he was 65, but kept in harness, and in 1921 two prospectors—Francis Marion Lovell and George H. Hartman—came upon a colemanite deposit in Nevada, and wired Mr. Smith, who immediately entered into a contract with them resulting in the formation of the company which has deposits of the mineral estimated to be worth \$24,000,000.

Philip T. Lodge, President of International Paper Co. denies reports that the company has been absorbed by an engineering organization. "The placing of newsprint paper on the free list by Congress," Mr. Dodge said, "virtually deals a death blow to the industry in the United States. Mills owned by International Paper Co. will continue manufacturing paper for some time to come, however, in as much as it owns vast timber tracts. Eventually, the water power now employed in the manufacture of paper will be utilized for the manufacture and sale of electricity under the company's auspices."

The committee on securities of the New York Stock Exchange having received notice that the interest due June 1, on the Virginia-Carolina Chemical Co.'s first mortgage 25-yr. 7% series A gold bonds due 1947 will not be paid on said date, rules that until further notice, said bonds must be dealt in flat, and to be a delivery, must carry the June 1 and subsequent coupons. The committee further rules that contracts in said bonds maturing June 2 shall be settled on the basis of computing six months' interest only.

C. F. Beatty, advertising manager, New Jersey Zinc Co., sailed last week on the Aquitania for a pleasure trip to England and the continent.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: Chemicals, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; Crude Drugs, Essential Oils, including oleoresins; Fatty Oils, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; Tanning and Dye Extracts, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20	American Gallons
1 American Gallon	— .833	Imperial Gallon
1 American Gallon	—3.79	Liters
1 Liter	— .264	American Gallon
1 American Gallon (Water)	—8.35	Pounds
1 Pound (Avoirdupois)	— .454	Kilograms
1 Kilogram	—2.20	Pounds

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Chemicals

ACETANILID, tech. 150 lb bbls..	.27	.28
100 lb kgs.	.25	.30
USP 200 lb bbls.	.30	.32
Second Hands	.29	.30
Acetic Anhydride		
85-90%, 100 lb chys.	.40	
90-95%, 100 lb chys.	.43	
C.P. 100 lb chys.	.80	
Acetone, CP 700 lb drs. e/l wks.	.15	
700 lb drs. le/l wks.	.15	
350 lb drs. le/l wks.	.16	
Second Hands, spot	.16½	.17
Acetone Oils, light, drs. wks. gal	1.40	1.50
Heavy, drs., wks.	1.35	1.40
Acetophenetidin, 150 lb bbls..	1.85	1.90
Acetyl Chloride, 100 lb chys.	.40	.41
ACID, 1, 2, 4, 250 lb bbls..		1.30
Acetic, 28%, 400 lb bbls. e/l		
wks.	3.12	
28%, le/l wks.	3.37	
56%, e/l wks.	5.85	
56%, le/l wks.	6.10	
70%, bbls. e/l wks.	7.20	
70%, le/l wks.	7.45	
80% coml. bbls. e/l wks.	8.19	
80% coml. le/l wks.	8.44	
80% pure bbls. e/l wks.	9.98	
80% pure le/l wks.	10.23	
Glacial, bbls. e/l wks.	11.01	
Glacial, le/l wks.	11.28	
Glacial USP chys. wks.	11.76	
Acrylonitrile, 220 lb bbls..	.75	.85
Second Hands	.70	.71
Anthranilic, tech., drs.	.94	
99-100%, 100 lb drs.	1.00	
Benzene, tech. 100 lb bbls..	.75	
Tech. ton lots bbls.	.70	
USP 100 lb bbls.	.75	.85
Second Hands	.72	.76
Boric, crys. powd. 250 lb bbls.	.10	.09½
Kegs. 100 lb	.10	.10½
Bromine's 250 lb bbls.	1.25	
Butyric, 60% pure 5 lb bot.	.40	.50
C.P. 10 lb bot.	1.25	1.50
Camphoric, USP, VIII 1 lb bot.	5.90	6.00
Carbolic, USP crys. see also Phenol		
112 lb tins	.28	.30
25 lb tins	.30	.32
5 lb tins or bot.	.32	.35
1 lb bot.	.37	.39

Acid Carboles—(continued)

Liquid USP, 1 lb bot.	.38	.39
Crude, 25% 50 gal. bbls. gal	.83	.85
10%, 50 gal. bbls.	.27	.30
Carbonic, see Carbon Dioxide		
Chloroacetic		
mono 100 lb bbls. wks.	.30	
DI, 150 lb chys. wks.	1.00	
Tri, 425 lb bbls. wks.	2.45	
Chlorosulfonic, 1500 lb drs.		
wks.	.15	.18
Chromic, USP 200 lb drums.	.40	
85% Pure, 200 lb drums.	.35	
Chromotropic, 300 lb bbls.	1.35	
Chrysanthic, see Chrysanthemum		
Cinnamic, 5 lb cans	3.93	
CITRIC, USP crys. 250 lb bbls.	.48	
Powd., USP, 200 lb bbls.	.49	
Imported, crys. 112 lb kegs.	.47	.48
Single kegs	.48½	
Cleval, 250 lb bbls.	1.00	1.10
Cresylic, 95% dark dr. NY.	.63	.65
97-99% pale, dr. NY.	.65	.75
Crude, spot, drums.	.55	.60
Diethylbarbituric, Dom., 25 lb lots,		
1 lb bot.	10.00	12.00
Imp. 10 lb lots	3.75	4.00
Formic 85% tech. 140 lb chys.	.12½	.13
90%, 80 lb chys. local.	.13	.13½
Gallie, USP, 150 lb bbls.	.70	
Gamma, 225 lb bbls. wks.	1.40	1.50
Glycerophosphoric, 25% 1 lb b.	1.85	1.95
H 225 lb bbls. wks.	.72	.75
Hydrolic, 10% USP 5 lb bot.	.75	
Hydrochromic, 45% coml. 155 lb		
chys. wks.	.35	.40
48% coml. 10 chys. wks.	.40	
40% USP 155 lb chys. wks.	.45	.46
10% USP 100 lb chys. wks.	.11	.13
Hydrochloric, see also Acid Muriatic		
CP, USP, 110 lb chys.	.08	.11
HYDROFLUORIC, 30% 400 lb bbls.		
wks.	.07	
30% bbls. e/l wks.	.06	
30% 100 lb chys. wks.	.07	
48% single 100 lb chys. wks.	.11	
48% 10 chys. wks.	.10	
52% 100 lb chys. wks.	.14	
52% 10 chys. wks.	.11	

Acid, hydrofluoric—(continued)

60% 100 lb chys. wks.	.14	
60% 300 lb dr. wks.	.13	
White Acid, 100 lb chys. wks.	.26	
White Acid, 10 chys. wks.	.25	
Hydrofluosulfic, 35% 450 lb bbls.		
wks.	.13	
Hypophosphorous, USP 30% 5		
gal. demis.	.85	
USP, 10% 5 gal. demis.	.80	
LACTIC, 22% dark 500 lb bbls.	.05	.05½
22% light, bbls.	.06	.06½
44% dark, bbls.	.10½	.11
44% light, bbls.	.12½	.13
66% bbls, dark, bbls.	.16½	.17
66% light, bbls.	.28	.28½
USP IX 100 lb chys.	.75	
USP VIII 100 lb chys.	.70	
Laurent's, 250 lb bbls.	.90	
Metanilic, 250 lb bbls.	.80	.85
Mixed, sulfuric-nitric		
Drums, wks.	.07½	.08
Drums, wks.	.01	.01½
Tank cars, wks.	.08½	.07
Tank cars, wks.	.009	.01
Molybdic, 85% pure 100 lb kegs.	1.35	1.60
100% C.P. 100 lb kegs.	2.00	2.10
Monosulfonic F, Delta, 50 lb		
tins	2.20	
MURIATIC, 20% chys. le/l		
wks.	1.45	1.80
Chys. e/l wks.	1.30	1.40
Tank cars, wks.	1.00	1.10
18%, 120 lb chys.		
e/l wks.	1.00	1.10
Tank cars, wks.	.net ton	
22%, 120 lb chys.		
e/l wks.	1.75	2.00
Iron, free 20% chys.		
e/l wks.	.net ton	
Tank cars, wks.	.net ton	
Muriatic, CP & USP, see Acid Hydrochloric		
Naphthalenic, tech. 250 lb bbls.	.62	
Refined, single bbls.	.65	
Neville & Winter's, 250 lb		
bbls.	1.05	1.10

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Chemicals

ACID, NITRIC, 36° 188B

1c/l chgs. wks....100B	4.75	: 5.25
Chgs. e/l wks....100B	4.50	: 4.75
38° 1c/l chgs. wks....100B	5.25	: 5.75
Chgs. e/l wks....100B	5.00	: 5.25
40° 1c/l chgs. wks....100B	5.75	: 6.00
Chgs. e/l wks....100B	5.50	: 5.75
42° 1c/l chgs. wks....100B	6.25	: 6.75
Chgs. e/l wks....100B	6.00	: 6.25
C. P. chgs. single wks....100B	.13	: .16
Oxalic, 325B bbls. wks....B	.10½	: .10½
Bbls., NY	.10½	: .10½
Keps, 100B NY	.11	: .11½
Imp., 560B cases....B	.10	: .10½
Phosphoric, 50% tech. 100B chgs.	.08	: .09
USP, Syrup 55°, 70B. demis	.15	: .16
Imported	...	...
Phthalic, see Phthalic Anhydride		
Picramic, 300B bbls....B	...	: .65
Pieric, 450B bbls....B	...	: .50
Bbls. car lots wks....B	.20	: .25
Pyrogalllic, crys. 5B cans....B	1.25	: 1.30
Resublimed, 5B cans....B	1.55	: 1.65
Tech. powd., 200B bbls....B	...	: .85
Salicylic, tech., 125B bbls....B	.32	: .53
USP, 100B bbls....B	...	: .35
Second Hands	.33	: .34
Sulfanilic, 250B bbls....B	.16	: .20
SULFURIC, 66° 180B chgs.		
1c/l wks....100B	1.35	: 1.75
Chgs. e/l wks....100B	...	: 1.35
1500B Drums, 1c/l wks.	...	: 1.25
Drums, e/l wks....100B	...	: 1.10
Tank cars, wks....net ton	14.00	: 15.00
60° 1500B Drums		
1c/l wks....100B	.75	: 1.00
Drums, e/l wks....100B	.65	: .75
Tank cars, wks....net ton	8.00	: 10.00
G. P. 175B chgs....100B	.08	: .09

ACID, Sulfuric

1c/l wks. ....100B	1.50	: 1.75
Drums, e/l wks....100B	1.25	: 1.50
Tank cars, wks....net ton	17.00	: 18.00
Contract cars, wks....ton	...	...
Oleum, 40% drs 1c/l wks.net ton	...	: 40.00
Oleum, 60% drs., 1c/l wks. net ton	60.00	: 70.00
Sulfurous, USP 6% 100B chgs.B	.05	: .06
4% 100B chgs....B	.04	: .05
USP, 5 gal. demis....B	.06	: .08
Tannic, tech. 300B bbls....B	...	: .35
USP, powd. 200B bbls....B	.75	: .80
USP, fluffy, 50B bbls....B	.75	: .80
Tartaric USP cryst 300B bbls.B	...	: .30
USP, powd., 300B bbls....B	...	: .30
Imp. USP, 240B bbls....B	.27½	: .28
Powd. 240B bbls....B	.28	: .28½
Tobias, 250B bbls....B	.90	: .95
Tungstic, 100B kgs....B	...	: 1.00
Valeric, C.P., 10B bot....B	2.50	: 2.75
Acetiline Alk. cryst. 1 oz. vls.oz	...	: 30.00
Amorphous, 1 oz. vls....cu	...	: 20.00
Adeps Lanac, hydrous 350B bbls.B	.20	: .22
Anhydrous, 350B bbls....B	.23	: .24
Albumen, Egg, edible....B	1.17	: 1.20
Technical, see Dyes Sundries		
ALCOHOL, USP 190 pt. 50 gal. bbls.	4.83	: 4.91
Second Hands, bbls, USP 190 pt.	...	: ...
Export, USP, 190 pt....gal	.45	: .53
Cologne Spirit, 50 gal. bbls.gal	4.90	: 5.00
WOOD, see Methanol		
Alcohols, also in 50 gal drums, extra and returnable.		
Amyl, see Oil Fuel		
Butyl, 50 gal. drums....B	...	: .32
Tank cars	...	: .30
Isobutyl, crude 50 gal drums.gal	...	: ...
Refined, 10B cans....B	2.00	: 2.50

ALCOHOL—(continued)

Isopropyl, crude 50 gal. drs..gal	...	: 2.25
Refined, 50 gal. drs....gal	4.00	: 4.50
Ref'd, 91% drs....gal	...	: 3.50
Methyl, see Alcohol, Wood		
Propyl, nml. crd. 50 gal. drms.gal	...	: 4.40
Refined, 16B cans....B	...	: .75
Denatured		
No. 1 Complete Denat. 188 Proof		
50 gal. drums, extra....gal	.51	: .53
50 gal. drums, extra....gal	.51	: .53
No. 1 Special Denat. 190 Proof		
50 gal. bbl. incl....gal	.54	: .56
50 gal. drums, extra....gal	.48	: .50
No. 5 Complete Denat. 188 Proof		
50 gal. bbls. incl....gal	.53	: .55
50 gal. drums, extra....B	.47	: .49
No. 6 Complete Denat. 188 Proof		
50 gal. bbls. incl....gal	.53	: .55
50 gal. drums, extra....gal	.46	: .48
In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their use however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue.		
Aloln, USP, 100B cases....B	.85	: .90
Refined, 300B bbls....B	...	: .75
Alpha-Naphthol, crude 300B bbls.B	...	: .65
Refined	...	: .80
Alpha-Naphthylamine, 350B bbls.B	.35	: .37
Ton lots. bbls. wks....B	...	: .35

General Chemicals

A MARK OF PLEDGED RESPONSIBILITY

GENERAL CHEMICAL COMPANY

ON PRODUCTS OF STANDARD MERIT

Aluminum Sulphate

Sulphuric Acid	Nitric Acid	Salt Cake
Acetic Acid	Ammonia Alum	Tin Crystals
Epsom Salt	Aqua Ammonia	Sodium Sulphide
Hydrochloric Acid	Copperas Nitrate Iron	Sodium Silicate
Mixed Acids	Anhydrous Bisulphite Soda	Sodium Phosphate

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performance until you have used Du Pont
Para-Toluidine. Even a slight variation from the
du Pont standard will invariably result in a lowering
in yield, or dull shade of finished dyestuff.

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purity and uniformity, to meet the most exacting
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Dyestuffs Department, Sales Division

WILMINGTON, DELAWARE

8 Thomas St., New York, N. Y.

Chemicals

ALUM. Ammonia, lump 400 lb bbls.			AMMONIA anhyd. 100 lb cpl.... lb			AMMONIUM —(Continued)		
wks. ....100 lb	3.50	3.85	Water, 28° 800 lb drs. wks.. lb	..	.06%	Persulfate, 112 lb cases..... lb	.35	.40
Imp., 500 lb casks.....100 lb	..	..	Drs. e/l wks..... lb	..	.06%	Phosphate, dibasic 200 lb bbls.. lb	..	.18
Ground, 400 lb bbls. wks.100 lb	3.85	3.75	C.P., cbsa..... lb	..	.14	Tech., powd. 325 lb bbls.. lb	..	.18
Powd. 380 lb bbls. wks.100 lb	2.90	4.00	Imp., 800 lb drs. incl. spot. lb	..	.06%	Phosphate, mono, 325 lb bbls.. lb	..	.12 1/4
Chrome 500 lb cks. wks.100 lb	5.50	6.00	26° 100 lb cbsa. le/l wks.. lb	..	.07%	Salicylate, USP 100 lb kegs.. lb	.70	.75
Potash, lump 400 lb bbls.			Cbsa., e/l wks..... lb	..	.07%	Sulfate, bulk e/l wks.....100 lb	2.65	2.70
wks. ....100 lb	..	4.50	20°, 800 lb drs. le/l wks.. lb	..	.05%	200 lb single bgs. e/l wks.100 lb	2.70	2.75
Bbls. e/l wks.....100 lb	..	4.25	Cbsa., le/l wks..... lb	..	.06%	200 lb double bgs., f.a.s.100 lb	2.60	2.65
Cont. bbls. e/l wks.....100 lb	..	4.25	18°, 800 lb drs. le/l wks.. lb	..	.04%	Sulfoyanide, tech. 100 lb kegs.. lb	.50	.60
Imp. 650 lb cases s.p.100 lb	..	2.75	Cbsa., le/l wks..... lb	..	.05%	CF, 25 lb jars..... lb	.60	.70
Ground, 400 lb bbls. wks.100 lb	4.35	4.60	16°, 800 lb drs. le/l wks.. lb	..	.04%	Amyl Acetate, tech. 50 gal. drs.gal	3.00	3.25
Imp. 650 lb casks.....100 lb	..	3.00	Cbsa., le/l wks..... lb	..	.05%	Refined 50 gal. drums.....gal	4.00	4.25
Powd., 380 lb bbls. wks.100 lb	4.50	4.75	Ammonium Acetate, 100 lb kegs.. lb	..	.37	Alcohol, see Fusel oil		
Chrome, 700 lb cks wks.100 lb	5.50	6.00	Benzoate, USP, 1 lb bot.... lb	.90	.95	ANILINE OIL, 900 lb drs..... lb	.16	.17
Soda grd. 400 lb bbls. wks.100 lb	..	4.00	Bifluoride, 300 lb bbls..... lb	.22	.23	Aniline Salt 200 lb bbls..... lb	.22	.23
Bbls. e/l wks.....100 lb	..	3.50	100 lb kegs lb	.23	.24	Anthracene, 80-85%, 600 lb casks		
Aluminum, metal, e/l NY.....100 lb	28.00	29.00	Bromide, 50 lb boxes lb	.39	.40	wks. lb	.75	1.00
Chloride, anhyd. 275 lb drs.. lb	.20	.22	Imported, 112 lb boxes..... lb	.21	.22	28-30%, Imp. lb	.02	.02 1/4
Crystals, 375 lb bbls..... lb	..	.06 1/4	Carb., tech. 500 lb casks..... lb	..	.08 1/4	Anthraquinone, sublim. 125 lb bbls.. lb	1.00	1.15
30% sol. 120 lb cbsa..... lb	.03 1/4	.04	Powd., tech. 385 lb bbls.. lb	..	.09	Antimony metal, slabs ton lots 100 lb	8.50	11.50
Hydrate 96% light 90 lb bbls.. lb	.17	.18	URF, lump, 100 lb kegs..... lb	.12	.13	Needle Powd., 100 lb cases..... lb	.07%	.08%
Heavy 62-64%, 220 lb bgs.. lb	.06	.06 1/4	Powd., 100 lb kegs..... lb	.13	.14	ANTIMONY CHLORIDE , anhyd 1000 lb		
400 lb bbls. wks..... lb	.06 1/4	.07	Chloride, Domestic			drs. lb	..	.35
SULFATE , Iron-free bags e/l			White, 250 lb bbls. e/l lb	..	.67 1/4	50 lb crocks lb	.45	.48
wks. ....100 lb	2.25	2.40	250 lb bbls., le/l wks..... lb	..	.08	Sol'n, 130 lb carboys..... lb	..	.11
Imported, spot .....100 lb	2.30	2.35	Gray 250 lb bbls. wks..... lb	.08%	.08%	Oxide, 500 lb bbls..... lb	.08%	.09
Comm'l., 1/4% iron, bgs e/l			Bbls., e/l wks..... lb	.08	.08 1/4	Salt, dom. 500 lb bbls..... lb	.24	.25
wks. ....East 100 lb	..	1.35	Imp. wh. 250 lb casks spot. lb	.06 1/4	.06%	Imp., NY lb	.19	.20
Cont. bgs. e/l wks. E. 100 lb	1.30	1.35	Gray, 600 lb casks spot.. lb	.07 1/4	.08	Sulfuret, golden 500 lb bbls.. lb	..	.21
Bags, e/l wks. W. ....100 lb	..	1.30	Lump, 500 lb casks spot.... lb	..	.13	336 lb kegs lb	..	.19
Bbls., e/l wks. East. 100 lb	..	1.50	Ichthyolate, as to brand..... lb	4.85	5.00	Crimson, 500 lb bbls..... lb	..	.28
Bulk, e/l cont. wks. E. 100 lb	..	..	Iodide, USP, 25 lb jars..... lb	..	5.20	336 lb kegs lb	..	.28
Amidol, (see Diaminophenol)			Lactate, 500 lb bbls..... lb	.15	.16	Red, 500 lb bbls..... lb	..	.45
Amidopyrine, Imp. 10 lb boxes.. lb	4.35	4.50	Nitrate, tech. crys. 225 lb bbls.. lb	..	..	336 lb kegs lb	..	.42
Domestic, 10 lb boxes..... lb	..	4.60	Refined Crystals, bbls..... lb	.21	.23	Tartritolactate, 500 lb bbls..... lb	..	.45
Aminobenzenes, 110 lb kegs..... lb	..	1.15	CP gran. 100 lb kegs..... lb	.35	.37	Antipyrine, USP, 100 lb cases..... lb	2.10	2.25
			Oxalate, pure, 100 lb kegs..... lb	.40	.42	Apomorphine Hydrochloride, 1/4 oz. vials..... lb	..	21.15
						Arecoline Hydrobromide, 1 oz. vial. oz	6.25	7.82
						Argols, red powd. 350 lb bbls.. lb	.06	.07

The Name Associated With **Roche** Fine Chemicals and Alkaloids of Rare Quality



Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Brucine and Salts
Caffeine and Salts
Cocaine and Salts
Codeine and Salts
Colchicine Alkaloid, U. S. P.
Colchicine Salicylate
Creosote, U. S. P.
Creosote Carbonate

Cumarin
Diacylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Guaiacol Liquid
Guaiacol Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastinine Hydrochloride
Hyoscine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein

Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinat
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbine Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK



ETHYLENE GLYCOL

Acetaldehyde
Acetaldol
Diethyl Sulphate
Ethylene Chlorhydrin
Ethylene Dichloride
Ethylene Glycol
Ethylene Oxide
Glycol Diacetate
Isopropanol
(Isopropyl Alcohol)
Paraldehyde

Preservative for non-intoxicating preparations

Reagent for manufacture of fine chemicals

Low freezing constituent for solutions

Non-fermentable moistening agent

Physiologically harmless and applicable in foodstuffs, medicinal compounds, cosmetics, perfumes and similar preparations

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NEW YORK

Chemicals

Amend, metal, 220 lb kegs....D45	Benzidine Base, dry 250 lb bbls.D80	BISMUTH—(Continued)		
Red, 224 lb kegs cases....D	.15	.15%	Benzidine Sulfate, paste 350 lb bbls.	.70	.72	Subdioxide, 5 lb lots.....D	...	4.65
White, 550 lb bbls., NY....D	.05%	.09%				Subnitrate, USP, 250 lb bbls..D	...	2.90
Asbestos, see Acid Acetylsalicylic			Benzol, see Benzene			Second Hands, bbls. or less..D	...	2.90
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5 lb boxes....D	3.50	3.60	Cones, 1 lb bot.....D	...	4.00
Atropine, Alk. USP, 1 oz. vial...oz	5.00	5.57	Benzoyl Chloride, 500 lb drs....D	...	1.00	Subsalicylate, USP, 175 bbls..D	...	3.10
Sulfate, 5 oz. cans.....oz	...	2.75				Tannate, 1 lb bot.....D	...	2.60
Single ounce.....oz	...	2.92	Benzyl Acetate, 100 lb chys....D	1.55	1.75	above on basis 25 lb lots.		
BARIUM BINOXIDE, see Barium Oxide			Alcohol, 5 lb bot.....D	1.45	1.55	Smaller lots at an advance.		
Carbonate, precip., 800 lb bbls.			Benzoate, 5 lb bot.....D	1.60	1.75			
Wks.	66.00	68.00	Medicinal FFC.....D	1.75	2.00	Blanc Fixe, dry 400 lb bbls. wks.ton	75.00	80.00
Precip., 200 lb bbls., wks.....ton	66.00	68.00	Chloride, 95% tech. 935 lb drs.D	...	.35	Imported, tbls.....ton	70.00	72.00
Imports, bbls., spot.....ton	62.00	63.00	100 lb chys.....D	.25	.30	Paste, 650 lb bbls.....ton	50.00	55.00
Chloride, 800 lb bbls., wks.....ton	...	90.00	Redistill 100 lb chys.....D	.40	.45	BLEACHING POWDER, 700 lb drs.		
200 lb bbls., wks.....ton	...	88.00	Formate, 1 lb bot.....D	3.00	3.25	c/l wks.....100 lb	...	1.90
Imports, bbls., spot.....ton	83.00	85.00	Berberine Hydrochloride, 1 lb bot....D	...	22.50	Drums 1c/l ex-warehouse....100 lb	2.35	2.60
Dioxide, 85% 690 lb drs....D	.17	.18	Sulfate, acid or neut. 1 lb bot....D	...	22.00	Contract, c/l wks.....100 lb	1.90	2.15
Imports, 86-88% 400 lb drs.D	...	.15	BETA-NAPHTHOL, 350 lb bbls.wks.D	...	.26	Drums, 1c/l wks.....100 lb	2.05	2.30
Hydrate, 500 lb bbls.....D	...	.05	Carlots, wks.....D	...	.24	Imported, spot.....100 lb	...	...
Iodide, 5 lb box.....D	...	6.15	Sublimed.....D	.55	.60	Blue Ointment, see Mercury		
Nitrate, 700 lb cans.....D	...	.10	Beta-Naphthylamine, tech. 300 lb bbls.	.65	.67	Moss, see Mercury		
Imports, cans.....D	.03	.08%	Sublimed, 200 lb bbls.....D	...	1.35	Bone Ash, 100 lb kegs.....D	.06	.07
Sulfocyanide 400 lb bbls.....D	...	.35	Bichloride Mercury, see Mercury Bichloride			Black, 200 lb bbls.....D	...	.06
Barytes, floated 350 lb bbls wks.ton	24.00	26.00				Borax, USP, crys. 400 lb bbls..D	.05	.05%
Imports.....ton	29.00	34.00				Powdered, USP, 300 lb bbls..D	.05	.05%
Ray Rum, Porto Rican, genuine						Kegs, USP, 100-150 lb.....D	.05%	.05%
Medicated salicy. acid or tartar emetic						Bordeaux Mixture, 16% pd. bbls.D	.12	.12
45 gal. bbls.....gal	1.35	1.50				Paste, bbls.....D	.08	.10
Medicated quinine sulf. 45 gal.						Borneol, 1 lb bot.....D	...	3.50
bbls.....gal	1.35	1.50				Bromide, see potass. bromide, etc.		
Domestic synthetic, 80 gal.						Bromine, bot. in 60 lb cs. wks.D	...	.20
bbls.....gal	.90	1.00				Bromobenzene, 600 lb drums....D	.40	.42
St. Thomas						Bromoform, USP 5 lb bot 50 lb cs.D	...	1.65
Medicated salicy. acid or tartar emetic, 50 gal. bbls.gal	1.25	1.35				Brucine Sulfate, 100 ozs.....oz	.15	.25
Benzaldehyde, tech. 945 lb drs.						Butter of Antimony, see Antimony Chloride		
wks.....D	.75	.80				CADMIUM, metal 100 lb bbs....D	.95	1.00
USP, 40 lb chys.....D	1.50	1.60				Bromide, 50 lb cases jar.....D	...	1.20
FFC, 40 lb chys.....D	1.60	1.75				Iodide, 10 lb bot.....D	...	4.45
BENZENE, 90% 8000 gal. tanks						Sulfide, cs.....D	1.50	1.60
wks.....gal23						
110 gal. drs. wks.....gal28						
Pure, Tanks, wks.....gal	.24	.25						
110 gal. drs. wks.....gal30						

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The reliable quality of Baker's Analyzed Chemicals and Acids has led to their adoption wherever the highest value is placed on scientific accuracy.

Hydrochloric Acid

In carboys, net weight 115 lbs.
In standard cases, 10 6-lb. bottles.

Sulphuric Acid

In carboys, net weight 180 lbs.
In standard cases, 10 9-lb. bottles.

Nitric Acid

In carboys, net weight 135 lbs.
In standard cases, 10 7-lb. bottles.

Ammonia

In carboys, net weight 85 lbs.
In standard cases, 10 4-lb. bottles.

J. T. BAKER CHEMICAL COMPANY

Phillipsburg, N. J.

New York Representative: H. B. PRIOR

17 East 42nd Street

Phone: Vanderbilt 9490

C. P. ACIDS and AMMONIA

Hydrochloric Acid, C. P.

HCl M. W. 36.46

Analysis

Sp. Gr..... 1.18-1.19	Fe..... .0002%
HCl..... 35.4-37.5%	As..... Trace
SO ₂ None	N. V. M.002%
Cl..... None	

Lot No. 12324

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<p>TOMAHAWK BRAND Zinc Oxide</p> <p>This 35 per cent leaded brand is uniformly consistent, permitting positive formulae standardization.</p> 	<p>GRASELLI WHITE Lithopone</p> <p>Brilliant white; highly resistant to exposure: neutral; opaque.</p>	<p>SNOW CAP BRAND Zinc Oxide</p> <p>This low lead content pigment (5 per cent) is noted for the excellence of the results it gives.</p> 
<p>GRASELLI GRADE <i>A Standard Held High for 85 Years</i> The GRASELLI CHEMICAL CO.</p>		
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UNION TRUST BUILDING
CLEVELAND, O.

HARDWOOD TAR
HARDWOOD PITCH

Chemicals

Cinechone alk., pwd. 100oz. tinsoz	...	: 38	COPPER metal electrolytic c/l	12.75	: 12.87	Diethyl Sulfate tech. 50gal. drs. lb	.20	: .25
Crystal	.....oz	: .43	Lake c/l NY	100.00	: 13.12	CP drums	.....lb	: .50
Sulfate, 100 oz. tins	.....oz	: .25	Casting, c/l NY	100.00	: 12.67	Digitalin, Pure, 1 oz. vial	.....oz	: 9.75
Citrine Ointment, see Mercury			Carbonate, 400 lb bbls.	.....lb	: 16 1/4	Dimethylamine, 840 lb drs. wts. lb	.....lb	: .38
Coal Tar, Tks. & bbls., wks.	gal	: .08	Chloride, 250 lb bbls.	.....lb	: .28	Dimethylsulfate, 100 lb drs.	.....lb	: .54
Cobalt metal, 100 lb kegs.	.....lb	: 3.00	Cyanide, 100 lb drs.	.....lb	: .45	Dinitrobenzene, 400 lb bbls.	.....lb	: .17
Cobalt Oxide, 500 lb bbls.	.....lb	: 2.10	Iodide, 5 lb bot.	.....lb	: 5.65	Dinitrochlorobenzene, 400 lb bbls.	.....lb	: .19
10 lb tins, 200 lb cases	.....lb	: 2.45	Oxide, red 1660 lb bbls. ton lots	.....lb	: 16 1/4	Dinitronaphthalene, 350 lb bbls.	.....lb	: .32
COCAINE alk., USP, 1 oz. vial.	.....oz	: 10.00	Sub-Acetate, verd. 440 lb bbls.	.....lb	: .23	Dinitrophenol, 350 lb bbls.	.....lb	: .40
Hydrochloride, USP—1 oz. vials,	.....oz	: 7.07	SULFATE, crys. 450 lb bbls. c/l	4.72	: 4.90	Dinitrotoluene, 300 lb bbls.	.....lb	: .19
25 ozs.	.....oz	: 7.07	spot	.....lb	: 4.70	Dionin, see Morphine, Ethyl		
In 1/4 oz. vials	.....oz	: 7.50	Carlota, bbls. f.o.b. NY. 100 lb	4.80	: 4.70	Diphenylamine, 250 lb bbls.	.....lb	: .56
In crystals, granular, powder,			Carlota, bbls. delivered. 100 lb	4.90	: 5.30	Diphenylguanidine, 170 lb bbls.	.....lb	: 1.10
or flaky crystals as desired.			Imp. 550 lb cks spot. 100 lb	4.22	: 4.75	Dover's Powder, USP 5 lb tin	.....lb	: 2.20
Cocoa Butter, bulk, 200 lb bales.	lb	: .26 1/2	Powdered, 350 lb 5 bbls.	.....lb	: 5.75	Duboisine Sulfate, 1 oz. vial	.....oz	: 30.07
Fingers, cakes, etc. 12 lb bxs.	lb	: .35	Copperas, bulk c/l wks.	.....ton	: 16.60	EARTH, Diatomaceous, see Kieselguhr		
CODEINE alk., 1 oz. vial. 10 oz.	.....oz	: 9.27	200 lb bgs, c/l wks.	.....ton	: 18.00	Emetine alk., 15 gr. vial	.....ea	: 1.30
lots	.....oz	: 9.27	400 lb bbls. c/l wks.	.....ton	: 20.00	Hydchlide, USP 1 oz. vial	.....oz	: 17.50
Hydrobromide, 1 oz. vial, 10 oz.	.....oz	: 7.42	Powdered, bbls.	.....lb	: 1.90	15 gr. vials	.....ea	: .75
lots	.....oz	: 7.42	Sugar, 400 lb bbls.	.....lb	: 1.25	EPSON SALT, tech. 300 lb bbls.		
Hydrochloride, 1 oz. vial, 10 oz.	.....oz	: 8.27	Corn Syrup, 42 deg. 50 gal.	.....lb	: 3.46	NY	.....lb	: 2.15
lots	.....oz	: 8.27	43 deg. 50 gal. bbls.	.....lb	: 3.51	Bbls. c/l NY	.....lb	: 2.00
Nitrate, 1 oz. vial, 10 oz. lots	.....oz	: 8.27	44 deg. 50 gal. bbls.	.....lb	: 3.58	100 lb bgs, c/l NY	.....lb	: 1.75
Phosphate, 1 oz. vial, 10 oz.	.....oz	: 8.97	45 deg. 50 gal. bbls.	.....lb	: 3.65	Imp., 220 lb bgs. c/l		
lots	.....oz	: 8.97	Corn Sugar, see Glucose			NY	.....lb	: 1.30
Salicylate, 1 oz. vial, 10 oz.	.....oz	: 6.97	Corrosive Sublimite, see Mercury Bichloride			Bbls. c/l NY	.....lb	: 2.50
lots	.....oz	: 6.97	Cotton Soluble, 100 lb bbls. wet.	lb	: .42	100 lb bgs, c/l NY	.....lb	: 2.15
Sulfate, 1 oz. vial, 10 oz. lots	.....oz	: 7.42	Coumarin, 25 lb tins	.....lb	: 3.50	Imported, 400 lb bbls.	.....lb	: 2.25
Small Sizes, 1/4 oz. vials, 50c extra,			Second Hands	.....lb	: 3.50	100 lb kegs	.....lb	: 2.50
1/4 oz. 30c extra, singles 7c extra			CREAM TARTAR, USP 300 lb			Ergotin, Bonjean, 1 lb jars	.....lb	: 6.00
per oz.—25 oz. lots, 10c oz. cheaper			bbls.	.....lb	: 21 1/4	Eserine alk., 1 oz. vial	.....oz	: 24.07
than above. Less than 10 ozs. 15c oz.			Imp. powd. USP, 224 bbls.	.....lb	: 26 1/4	Salicylate, USP 1 oz. vial	.....oz	: 16.97
higher than above.			Creosote, USP, 42 lb clys.	.....lb	: .45	Sulfate, USP VIII, 1 oz. vial	.....oz	: 11.07
COD LIVER OIL, Norwegian, 30 gal.			Carbonate, 1 lb bot. 25 lb	.....gal	: 1.70	ETHER, USP 55 lb drums	.....lb	: .13
bbls.	.....bbl	: 21.00	Creosote Oil, 50 gal. drs.	.....gal	: .26	Anaesthesia, 55 lb drums	.....lb	: .16
Newfoundland, 30 gal. bbls.	.....bbl	: 24.00	Creosol, USP, 400 lb drums	.....lb	: .22	USP, 1880 55 lb drums	.....lb	: .40
Colchicine alk., USP 1 oz. vial	.....oz	: 15.07	Cyanamide, bulk c/l wks. Amm. urit	.....lb	: 1.90	Washed, 55 lb drums	.....lb	: .32
Salicylate, 1 oz. vial	.....oz	: 45.00	DIAMINOPHENOL, 160 lb kegs.	.....lb	: 3.80	Motor, 1 lb cans	.....lb	: .27
Celodion USP 30 lb drums	.....lb	: .22	Dianisidine, 100 lb kegs.	.....lb	: 4.00	Ether, Nitrous, 1 lb bot.	.....lb	: .92
			Dichlorobenzene, 1000 lb drs.	.....lb	: .08	Ethyl Benzyl Aniline, 300 lb drs.	.....lb	: 1.35
			Diethylamine, 850 lb drs.lb	: .55			
			Diethyl Phthalate, 25 lb cans.lb	: .50			
			1000 lb drs.lb	: .40			



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Standard Quality

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Chemicals

Ethyl Acetate, 99%, 50 gal. drs. gal	1.15	1.18	Gelatin, USP silver lbi. 100 lb. cs. lb	.85	.90	Hydrastine Hydrochloride, USP 13 gr. vial	1.60
85% Ester, 100 gal. drs. gal	..	.85	Gold Label, 100 lb. cans. lb	..	..	Hydrobenzene 100 lb. kgs. lb	1.30
Carlots, drums. gal	..	.82	Technical, 100 lb. cs. lb	.60	.65	HYDROGEN PEROXIDE, 35 vol. 400 lb. bbls.	..
Tanks Cars. gal	..	.90	GLAUBER'S SALT, tech. 200 lb. bags	1.15	1.25	100 vol. 145 lb. cys. lb	.36
Refined, drums. gal	1.77	1.90	350 lb. bbls. c/l wks. 100 lb	1.20	1.30	USP Soln. 375 lb. bbls. lb	.05
Bromide 115 lb. drs. lb	..	.40	Bbls. 1c/l wks. 100 lb	1.30	1.75	100 vol. 145 lb. cys. lb	..
Chloride, 15 lb. cyl. lb	..	.35	Imported, bbls. spot. 100 lb	.95	1.00	USP bot. 4 oz. cases. gross	8.00
Methyl Ketone, 50 gal. drums. lb	.25	.25%	USP, 300 lb. bbls. imp. sp. 100 lb	..	1.25	Bot. 8 oz. cases. gross	11.75
Morphine, see Morphine, Ethyl	..	..	USP, 300 lb. bbls. dom. sp. 100 lb	..	1.75	Bot. 16 oz. cases. gross	19.75
Ethylene Bromide, 600 lb. drs. lb	..	.60	USP, 300 lb. bbls. c/l wks. 100 lb	..	1.40	Hydroquinone, 100 lb. kgs. lb	1.40
Glycol. lb	.65	1.00	Calcined, see Sodium Sulfate	..	..	Hyocine Hydrobrom. USP 1 oz. vial	..
Chlorhydrin, anhyd. 50 gal. drs. lb	.75	.85	Glucose, (Grape Sugar) dry, 100 70° bags, c/l NY. 100 lb	3.40	3.84	Five ozs., 1 oz. vials. oz	..
40% Solution, 50 gal. bbls. lb	.35	.30	Syrup, Drs. & bbls. c/l NY. 100 lb	3.26	3.51	Hyocyanine Alk. Cryst., 1 oz. vial. oz	..
Dichloride, 50 gal. drs. lb	.30	.35	1c/l NY. 100 lb	3.36	3.61	Alkaloid, Amorphous, 1 oz. vial. oz	..
Ethylideneaniline. lb	..	.70	GLUE, pure white, bbls. lb	.22	.26	Hydrobromide, USP 1 oz. vial. oz	..
Eucalyptol, 25 lb. cans. lb	.77%	.80	Medium white, bbls. lb	.20	.24	Sulfate, 1 oz. vial. oz	..
Feldspar, bulk. ton	30.00	25.00	French, bbls. lb	.18	.25	INDOL, C. P., 1 oz. bot. oz	6.00
FERRIC CHLORIDE, tech. crys.	..	..	High Grade, bbls. lb	.35	.40	Iodides, see Potass. Iodide, etc.	..
475 lb. bbls. lb	..	.07	Bone, regular, bbls. lb	.10	.12	IODINE, crude, 200 lb. kgs. lb	..
Imported. lb	..	.06%	Fish, bbls. gal	1.50	1.75	Resublimed, 10 lb. jars. lb	..
USP, crys. 100 lb. kgs. lb	..	.08	GLYCERIN, C. P. 550 lb. drums. lb	.16%	.17	Tincture, USP, 50 gal. bbls. gal	4.00
Imported. lb	..	.07%	Cans. 50 lb. lb	.18	.18%	Carboys. lb	4.30
Neut. Sol'n 40° 140 lb. cys. lb	..	.06	Dynamite, 100 lb. drs. lb	.16	.16%	Iodoform, powd. 10 lb. bot. lb	..
45°, 140 cys. lb	..	.08	Saponification, tanks. lb	.11%	.12	Crystals, 10 lb. bot. lb	..
USP Sol'n 125 lb. cys. lb	..	.05%	Soap, Lye tanks. lb	.10%	.10%	Iridium, metal 10 oz. lots. oz	250.00
Ferrous Chloride, crys. tech.	..	..	Gos Powder, see chrysarobin	..	..	Iron, metal by hydrogen 1 lb. bot. lb	.80
475 lb. bbls. lb	.06	.06%	Graphite, crude 220 lb. bags. ton	15.00	25.00	IRON & AMM. CITRATE, USP 25 lb. cans	..
Ferrous Sulfate, 1000 lb. bbls. 100 lb	2.50	3.00	Flake, 500 lb. bbls. lb	.05	.09	Green scales, 25 lb. cans. lb	..
Flake White, see lead, white	..	..	Ground, lump, bbls. lb	.04	.05	Cacodylate, 10 lb. bot. lb	6.50
Fluorpar, 95% 220 lb. kgs. ex-dock	..	25.00	Guaicol liquid, USP, 25 lb. cans. lb	2.35	2.45	Citrate, USP VIII 25 lb. cans. lb	.99
94% kgs. ton	..	33.50	Benzoate, 1 lb. bot. lb	..	18.00	Chloride, see ferric or ferrous	..
98% kgs. ton	..	35.00	Carbonate, 5 lb. boxes. lb	4.60	4.75	Hypophosphite, 5 lb. cans. lb	1.50
FORMALDEHYDE, USP 400 lb. bbls. c/l wks.	..	.09%	Second Hands. lb	3.60	3.75	Syrup, USP VIII. lb	..
Carboys, 100 lb. 1c/l wks. lb	..	.10%	HAARLEM OIL, Dom. 6 gr. oz. gross	..	3.50	Iodide, 1 lb. bot. lb	..
Bbls., 400 lb. 1c/l wks. lb	..	.10	Imported, 5 gr. cases. gross	4.60	4.85	Syrup, USP, 5 lb. bot. lb	.35
Second Hands. lb	..	.10	Halasone, 5 lb. bot. lb	2.75	3.25	Com'l. bbls. 100 lb	2.75
Swell Flour. lb	..	.04	Hexamethylenetetrazine, USP	..	..	Oxalate scales 25 lb. cans. lb	.85
Formalidine. lb	..	.50	100 lb. drums. lb	.75	.77%	Oxide red, Spanish. lb	.08%
Fuller's Earth, 200 lb. kgs. c/l minis	15.00	17.00	Imported. lb	.65	.67	& Ammon. Oxalate 25 lb. bxs. lb	.43
Imported, 250 lb. bags NY. ton	35.00	40.00	Rubber Makers, Impalp. Pd. drs.	.83%	.85	& Potassium Oxalate, 25 lb. bxs. lb	.45
Furfural, 300 lb. bbls. lb	.25	.30	Five ozs., 1 oz. vials. oz	..	14.57	& Sodium Oxalate, 25 lb. bxs. lb	.41
Fusel Oil, refined, 50 gal. drs. gal	3.75	4.00	Hydrastine Alk., USP, 1 oz. vial. oz	14.00	14.67	Phosphate, USP 25 lb. cans. lb	.79
Crude, 50 gal. drs. gal	2.50	2.75	Hydrochloride, USP, 1 oz. vial. oz	..	14.57	Pyrophosphate, USP 25 lb. cans	..
G SALT, paste 350 lb. bbls. basis 100%	.60	.85	Sulfate, 1 oz. vial. oz	..	14.67	..	.84

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Norvell Chemical
Corporation

Acid Benzoic
Sodium Benzoate
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MALLINCKRODT CHEMICAL WORKS

ST. LOUIS
MONTREAL

NEW YORK
PHILADELPHIA

Chemicals

JALAP RESIN, lump 5 lb tins..D	3.25	: 3.35	Linalool, 5 lb bot.....D	4.00	: 5.00	Manganese—(continued)		
Powd. tins.....D	3.40	: 3.50	Litharge, see lead oxide			Glycerophosphate, 5 lb tins....D	...	: 3.10
Kapoc, 200 lb double bales....D	.28	: .28	Lithium Carb. USP, 100 lb kgs..D	1.50	: 1.60	Hypophos. USP VIII 5 lb cans..D	...	: 1.40
KIESELGUHR, 95 lb bags NY...ton	60.00	: 70.00	Bromide, 100 lb cs.....D	1.75	: 1.85	Iodide, 1 lb bot.....D	...	: 6.65
LANOLIN, see Adeps Lanae			Citrate, USP, 100 lb kgs....D	1.70	: 1.75	Ore, bulk, NY.....unit	.40	: .45
LEAD, metal c/l NY.....100 lb	...	: 7.00	Iodide, 5 lb bot.....D	...	: 7.50	Sulfate, 600 lb casks NY....D	...	: .08
Acetate, white crystals 500 lb	...		Lithopone, 400 lb bbls, lc/l wks..D	...	: .07%	Marble Flour, bulk.....ton	10.00	: 12.00
Bbls. wks.....D	...	: .14%	Bbls. c/l wks.....D	...	: .06%	See also Calcium Carbonate		
100 to 250 lb kgs. wks..D	...	: .15	Bags, c/l wks.....D	...	: .06%	MENTHOL, USP, 60 lb cases...D	...	: 12.00
White, broken, bbls, wks.100 D	...	: 13.90	Imported, 400 lb bbls.....D	.05%	: .06	Less cases, 5 lb tins.....D	...	: 12.50
White, gran., bbls., wks.100 D	...	: 14.15	Litmus Cubes.....D	.80	: 1.00	Domestic, USP, 60 lb cases....D	11.75	: 12.00
White, powd., bbls, wks.100 D	...	: 15.25	MAGNESITE, crude.....ton	...	: 15.00	MERCURY, metal 75 lb flask..flask	75.00	: 77.00
Kegs, wks.....D	...	: .15%	Calcined, 500 lb bbls.....ton	...	: 55.00	Less Flasks, 5 lb jugs....D	...	: 1.10
Brown, broken, bbls, wks..D	...	: .13%	Magnesium mtl. sticks 100 lb cs..D	1.25	: 1.30	Bichloride, cryst. 25 lb bxs...D	...	: 1.13
USP, 100 lb kegs.....D	...	: .16%	Carb. tech. 70 lb bags NY...D	.09	: .08%	Gran. powd., 200 lb kegs..D	...	: .98
Arsenate, 100 lb bbls, lc/l wks..D	.21	: .26	75 lb bbls, NY.....D	.09%	: .10%	Bisulfate, 25 lb boxes.....D	...	: .98
Bbls. c/l wks.....D	.19	: .20	USP, 60 lb bbls.....D	.12	: .14	Blue Mass, 25 lb boxes.....D	...	: .66
Paste, 600 lb bbls.....D	.11	: .16	USP, blocks 100 lb ca. 1, 2, 4	.10	: .23	Powdered, 25 lb boxes.....D	...	: .68
Iodide, USP VIII 5 lb bot.....D	3.20	: 3.40	ons.....D			Blue Ointment, USP 25 lb cans	...	: .81
Nitrate, 500 lb bbls, wks.....D	...	: .13	Chloride, fused 575 lb dra. c/l	...	: 34.00	50%.....D	...	: .61
Oxide, lithge, 500 lb bbls.....D	...	: .11%	wks.....ton	...	: 36.00	USP, dilute 25 lb cans 30%..D	...	: .69
100 lb kegs, wks.....D	...	: .12%	Flaked, 350 lb dra. wks c/l ton	...	: 36.00	33 1/3% Mercury.....D	...	: 1.22
Oxide, red 500 lb bbls, wks..D	...	: .13	Imp., fused 900 lb bbls NY ton	36.00	: 28.00	Citrine Ointment 25 lb jars..D	...	: .51
100 lb kegs, wks.....D	...	: .11%	Fluomilicate, crystals 400 lb bbls	...	: .12	Iodide, green 25 lb jars.....D	...	: 4.10
Peroxide, 100 lb dra.....D	.25	: .30	wks.....D	.12	: .15	Red, USP 25 lb jars.....D	...	: 4.20
White, basic carb. 500 lb bbls	...		30% soln. 500 lb bbls, wks..D	.07	: .07%	Yellow, USP VIII 25 lb jars..D	...	: 4.10
wks.....D	...	: .10%	Soln. bbls. c/l wks.....D	...	: .06	Oxide, Yellow, USP, 25 lb. bxsD	...	: 1.68
Bbls c/l wks.....D	...	: .10%	Glycerophosphate, 5 lb tins...D	...	: 3.40	Red Precip. USP, 25 lb bxs...D	...	: 1.38
100 lb kegs wks.....D	...	: .15	Hypophosphite, 5 lb cans....D	...	: 1.05	Powder, USP 25 lb bxs.....D	...	: 1.48
White, sulfate 500 lb bbls, wks.	...	: .09%	Oxide, USP light 100 lb bbls..D	...	: .42	White Precip. USP 25 lb bxs..D	...	: 1.34
Bbls c/l wks.....D	...	: .09%	USP, heavy 250 lb bbls....D	...	: .50	Powdered, USP 25 lb bxs....D	...	: 1.39
Licorice Ext. Mass, cases.....D	.25	: .26	Peroxide, 5 lb cans.....D	...	: 2.40	With chalk, USP 25 lb bxs...D	...	: .66
Compound powder, bbls.....D	.11	: .13	Perborate, 1 lb tins.....D	...	: 2.62	Meta-Nitraniline.....D	.78	: .80
Powdered.....D	.38	: .40	Salicylate, 100 lb kegs.....D	.70	: .75	Meta-Nitro-para-Toluidine, 300 lb	...	: 2.20
Sticks, 1 oz. 100 lb cases.....D	.45	: .50	Sulfate, see Epsom Salts			bbls.....D	.90	: .93
LIME (Salts, see Calcium Salts)			Manganese Chloride, 600 lb csk.	.09%	: .10	Meta-Phenylenediamine, 300 lb	...	: .93
Lime, 325 lb bbls, ton lots, wks..D	...	: .01%	NY.....D	...	: .24	bbls.....D	.82	: .85
Single bbl. wks.....D	...	: .01%	Borate, 30%, 200 lb bbls....D	...	: .25	Meta-Toluylenediamine, 300 lb	...	
Hydrated, 167 lb bbl, ton lots,	...		100 lb kegs.....D	...		bbls.....D		
wks.....D	...	: .01%	Dioxide, 80-84% 900 lb bbls.	80.00	: 85.00			
Single bbl. wks.....D	...	: .01%	NY.....ton	85.00	: 90.00			
Oyster Shell, 150 lb bbl, single..D	...	: .03%	85-90% 900 lb bbls NY ton	85.00	: 90.00			
125 lb bag.....D	...	: .03%	Hydrated, precip. 100 lb kgs..D	.15	: .20			
Sulfur, dry 200 lb dra. NY...D	.08	: .10						
Drs. c/l NY.....D	...	: .10%						
33° Soln. 50 gal. bbls, NY gal	.15	: .16						

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BUTANOL

Dissolves gums
Prevents blushing
Gives greatest spread and flow
Permits maximum addition of diluents

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Chemicals

METHANOL (Wood Alcohol)			NAPHTHA, Solvent, 110 gal. dra.			Oxgall, USP, 5 lb. bot.		
95% tanks	gal	.72	wks.	gal	.30	Purified, 5 lb. bot.	lb	3.00
Drums, c/l	gal	.75	8000 gal. tank cars wks.	gal	.25	Crude, 5 lb. bot.	lb	1.50
Drums, 1c/l	gal	.77	NAPHTHALENE, Flake, 175 lb. bbls.					1.25
97% tanks	gal	.74	wks.	lb	.06	PALLADIUM, metal 10 oz. lots	oz	75.00
Drums, c/l	gal	.77	Bbls. c/l wks.	lb	.06	Pancreatin, USP 5 lb. bot.	lb	1.25
Drums, 1c/l	gal	.79	Bbls., second hands NY.	lb	.05	Papain, 10 lb. bot. USP, Pwd.	lb	2.25
Pure, Acetone free, this	gal	.80	Balls, 250 lb. bbls. wks.	lb	.07	Crude, 150 lb. cases	lb	1.80
Drums, c/l	gal	.82	Bbls., c/l wks.	lb	.06	Paraffin, ref'd 200 lb. cs. slabs	cs	.05
Drums, 1c/l	gal	.85	Bbls., second hands NY.	lb	.06	123-127 Deg. M. P.	lb	.05
Bbls. incl. 5c higher	gal		Crushed, chipped, bgs., wks.	lb	.05	128-132 Deg. M. P.	lb	.05
Methyl Acetone, 100 gal. drums	gal	.75	Crude, imp., bags	lb	.02	133-137 Deg. M. P.	lb	.06
Tanks, cars	gal	.75	Nickel Metal, electrolytic 100 lb	lb		138-140 Deg. M. P.	lb	.07
Chloride, 90 lb. cyl.	lb	.50	kegs	lb	.30	Para-Aminocetanilid, 100 lb	lb	
Salicylate, USP, 50 lb. cases	lb	.47	Ingot, 100 lb. kegs	lb	.29	kegs	lb	1.10
500 lb. drums	lb	.45	Salt, single 400 lb. bbls. NY.	lb	.11	Para-Aminophenol, 100 lb. kegs	lb	1.15
Second Hands, cases	lb	.45	Double, 400 lb. bbls. NY.	lb	.10	Hydrochloride, 100 lb. keg	lb	1.45
Methylene Blue, tech. 100 lb. kgs.	lb	1.25	Oxide, 100 lb. kegs NY.	lb	.40	Para-Dichlorobenzene, 150 lb. bbls.	lb	
USP, medicinal 5 lb. cans	lb	2.00	Sulfate, 450 lb. bbls.	lb	.07	wks.	lb	.17
Michler's Ketone, 225 lb. bbls.	lb	3.75	Nicotine, 8 lb. tins	lb	1.60	25-50 lb. kegs	lb	.18
Milk, powd. 150 lb. bbls.	lb	.14	Sulfate, 16 lb. tins, 40%	lb	1.15	Paraldehyde, 100 gal. dra.	lb	.48
Milk Sugar, see sugar of milk	lb		Nitre Cake, bulk wks.	ton	5.50	Paraformaldehyde, USP 100 lb. cs.	lb	.42
Mineral Oil, see oil mineral	lb		500 lb. bbls.	ton	13.00	Para-Nitroacetanilid, 300 lb.	lb	.55
Mineral Rubber	ton	35.00	Nitrobenzene, crude, 1000 lb. dra.	lb	.09	bbls.	lb	.60
Monochlorobenzene, see chlorobenzene	lb		wks.	lb	.09	PARA-NITROANILINE, 300 lb. bbls.	lb	.68
Monochlorobenzene, 900 lb. dra.	lb	1.00	Redistilled, 1000 lb. dra. wks.	lb	.20	wks. ton	lb	.73
Monomethyl paramidophenol sulfate	lb	3.95	Nitronaphthalene, 550 lb. bbls.	lb	.14	Para-Nitrochlorobenzene, 1200 lb. dra.	lb	.20
MORPHINE Sulfate, USP 5 oz. tins	oz		Nitrotoluene, mixed 1000 lb. dra.	lb	.03	wks.	lb	.30
10 oz. tins	oz	6.95	Ochre	lb		Para-Nitro-ortho-Toluidine, 300 lb.	lb	2.75
Acetate, 5 oz. tins 10 oz. lots	oz	6.95	Oil Fusel, see Fusel Oil	lb	1.00	bbls.	lb	2.85
Hydrobromide, 5 oz. tins 10 oz. lots	oz	6.95	OIL MINERAL, wh. 50 gal. bbls.	gal	1.25	Para-Nitrophenol, 185 lb. bbls.	lb	.70
Hydchlide, 5 oz. tins 10 oz. lots	oz	6.95	Oil Mirbane, see nitrobenzene	lb		Para-Nitrosodimethylamine, 120 lb.	lb	.95
Diacetyl Alk., 1/4 oz. vials 10 oz.	oz	10.75	Opium, see crude drugs	lb	.15	bbls.	lb	.47
Hydchlide, 1/4 oz. vials 10 oz. lots	oz	9.75	Orange Mineral, 800 lb. cases NY.	lb	.16	Para-Nitrotoluene, 350 lb. bbls.	lb	1.50
Ethyl Hydchlide, 1/4 oz. vials 10 oz. lots	oz	10.95	Ortho-Aminophenol, 50 lb. kegs	lb	2.40	Para-oxy Benzaldehyde, 100 lb.	lb	1.55
Small Sizes: 1/4 oz. vials, 50c extra;	oz		Ortho-Anisidine, 100 lb. dra.	lb	3.00	kegs	lb	1.60
1/4s 25c extra; single oz. vials, 7c extra,	oz		Ortho-Dichlorobenzene, 1000 lb. dra.	lb	.08	Para-Phenetidin, 500 lb. dra.	lb	1.80
lots in 5 oz. tins, 10c. or lower than	oz		wks.	lb	.35	bbls.	lb	1.35
above schedule. Less than 10 oz. lots	oz		Ortho-Nitrochlorobenzene, 1200 lb.	lb	1.25	Para-Toluene-Sulfonamide, 175 lb.	lb	.40
15c. or higher than above schedule.	oz		dra. wks.	lb	.10	bbls.	lb	.13
Musk Ambrette, 1 lb. cans	lb	15.00	Ortho-Nitrophenol, 350 lb. 3 bbls.	lb	.13	Para-Toluene-Sulfonchloride, 410 lb.	lb	.80
	lb	17.00	Nitrotoluene, 1000 lb. dra.	lb		bbls. wks.	lb	
	lb		wks.	lb		Para-Toluidine, 350 lb. bbls. wks.	lb	.85
	lb		Ortho-Toluidine, 350 lb. bbls.	lb				

NITRATE SODA

DOUBLE REFINED CRYSTALS
GRANULATED OR POWDERED



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GAS CARBON BLACK

DENATURED ALCOHOL

SPOT STOCKS CARRIED

INDUSTRIAL CHEMICAL CO.

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NEW YORK

Chemicals

PARIS GREEN

Arsenic Basis, 500 lb kegs...	.25	: .30
Kegs, 100 lbs...	.32	: .33
Kits, 56, 28, 14 lbs...	.34	: .35
Packages, 5 and 2 lbs...	.36	: .37
Packages, 1 lb, 1/2, 1/4 lb...	.39	: .43

Paris White, see whitening, French

Pepsin, USP 5 lb bot...	2.25	: 2.50
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PETROLATUM, green 300 lb bbls.

Dark Amber, 300 lb bbls...	.02 1/2	: .03
Light Amber, 300 lb bbls...	.03 1/2	: .04
Cream White, USP 300 lb bbls...	.04 1/2	: .05
Lily White, USP, 300 lb bbls...	.07	: .07 1/2
Snow White, USP, 300 lb bbls...	.09	: .09 1/2
	.12 1/2	: .13

Phenol, see also acid carbolle

American makers, drums wks...	...	: ...
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Open market, drs...	.28	: .29
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240 lb des drs. wks...	...	: ...
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Natural, 240 lb des drs. wks...	...	: ...
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Imported, 336 lb des drs...	...	: ...
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Phenolphthalein, USP, 100 lb drs...	1.40	: 1.50
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5 lb cans, 100 lb lots...	1.50	: 1.60
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Phenyl-Alpha-Naphthylamine 100 lb

kegs...	...	: ...
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Phenylethylalcohol, 1 lb bot...	6.75	: 8.75
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Imported...	7.75	: 9.75
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Phosgene, 100 lb cylinders...	...	: 1.00
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Phosphorus Oxichloride, 175 lb cyl...	.35	: .40
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Phosphorus, red 110 lb ca. wks...	.75	: .85
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Imported, 112 lb cases...	...	: ...
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Yellow, 110 lb ca. wks...	.40	: .45
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Imported, 112 lb cases...	...	: ...
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Phosphorus Trichloride, 175 lb cyl...	...	: .45
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Phthalic Anhydride, 100 lb bbls...	...	: .30
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Pilocarpine Hydrochloride, USP 25 oz.

lots, 1 oz vials...	3.00	: 3.32
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Nitrate, 25 oz...	...	: 3.00
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Single ounces...	...	: 3.32
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Alkaloid, 15 gr. vials...	...	: .85
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Piperazine Hydrate, 1 lb bot...	...	: 16.00
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Piperidine, 25 oz...	1.10	: 1.25
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Pitch, Coal-Tar, wks...	30.00	: 33.00
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Plaster Paris, tech 250 lb bbls...	...	: 3.30
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True Dental, 300 bbls...	...	: 4.50
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Platinum, metal soft 10 oz. lots...	...	: 118.00
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Podophyllin, 5 lb bot...	5.75	: 6.00
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Second Hands...	5.70	: 5.85
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POTASH, CAUSTIC, solid 88-92%

700 lb drs. wks...	...	: .07 1/2
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Imp., 88-92% 700 lb drs. NY...	.06 1/2	: .07
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USP, by alcohol 5 lb cans...	.48	: .48
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cases...	.30	: .35
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POTASSIUM Acetate, USP, 100 lb

kegs...	.29	: .30
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Bicarbonate, crys. 220 lb bbls...	.12	: .13
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Bichromate, crys. 900 lb cases...	.09 1/2	: .09 1/2
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Powd., 900 lb cases wks...	...	: .12
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Rinnoxalate, 300 lb bbls...	.25	: .28
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Import, 112 lb keg...	...	: .18
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Blasulfate, C.P., 5 lb cans...	...	: .30
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100 lb kegs...	...	: .22
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Bromate, 100 lb cs...	...	: .45
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BROMIDE, USP, cryst. 450 lb

bbls...	...	: .29
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Granular, 300 lb bbls...	...	: .32
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Cases, 100 lb...	...	: .33
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Imported, USP, 220 lb cs...	.23	: .23
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CARBONATE, 80-85% calc.

800 lb cks...	.05 1/2	: .05 1/2
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80-85%, hydrated, 800 lb	...	: .05 1/2
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cks...	.05 1/2	: .06 1/2
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90-95% calc. casks...	.05 1/2	: .06
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98-98% calc. casks...	.05 1/2	: .06 1/2
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99% calc. casks...	.07 1/2	: .07 1/2
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USP, 100 lb kegs...	.12 1/2	: .13
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99% CP casks...	.12	: .12 1/2
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POTASSIUM—(Continued)

Chlorate, crys. 112 lb kgs. e/l	...	: .08 1/2
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wks...	...	: .07
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Imp 112 lb kegs NY...	...	: .08 1/2
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Powd., 112 lb kegs wks...	...	: .09
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Imp., kegs NY...	...	: .06 1/2
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Pyrotechnic, fine powd. NY...	...	: .08 1/2
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USP, fine crys. 110 lb kegs	...	: .08
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NY...	...	: .09
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Citrate, USP 10 lb cans...	.63	: .66
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Cyanide 110 lb cases...	...	: .65
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Glycerophosphate, 75% Soln. 25 lb	...	: 1.70
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tins...	1.60	: 1.70
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Guaiacol Sulfonate, 5 lb cans,	...	: 2.00
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10 lb...	2.00	: 2.25
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Hypophosphite, 10 lb cans...	.80	: .85
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Iodide, USP, 100 lb cases...	3.60	: 3.65
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Second Hands, cases...	3.50	: 3.60
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Lactophosphate, 4 oz bot...	...	: .90
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Metabisulfite, 300 lb bbls...	.18	: .20
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Imp., 550 lb bbls...	.10	: .12
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Muriate, 80%, 200 lb bags, NY	...	: .68
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K ₂ O unit...	...	: .68
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Nitrate, see Saltpetre

Oxalate, neutral, 100 lb kegs...	.35	: .40
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Perchlorate, 112 lb kegs...	.09 1/2	: .10
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PERMANGANATE, USP, crys. 500 lb

& 100 lb drs. wks...	.14 1/2	: .15
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Imp. 112 lb drs...	.14	: .15
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Prussiate, red, 100 lb bbls...	...	: .37
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500 lb casks...	.35	: .37
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Prussiate, yellow, 500 lb casks...	.18 1/2	: .19 1/2
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Salicylate, 25 lb cans...	.60	: .65
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Sulfate, 200 lb bags, NY K ₂ O unit	...	: .94
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USP, VIII, 100 lb kegs...	.15	: .18
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Sulfocyanide, CP 25 lb jars...	...	: .50
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Tartrate, neutral, 100 lb kegs...	...	: .51
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Titanium Oxalate 200 lb bbls...	.85	: .90
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Largest producers of Pure Phthalic Anhydride in the world



SELDEN

99.99 + % Pure.

Brand PHTHALIC ANHYDRIDE

is the Product by which all other
Brands may be Standardized.

IT-IS-PURE

Unless Phthalic Anhydride melted in a TEST TUBE, has the same colorless appearance as SELDEN BRAND, it contains foreign matter which proves it is *not* STANDARD.

It is possible that trouble in commercial or research work can be traced directly to the use of *impure* Phthalic Anhydride.

THE SELDEN COMPANY

Pittsburgh, Pa., U. S. A.

Chemicals

Pumice Stone, lump, 250 lb bbls. D	.04 1/4	.36	QUININE—(continued)			Santonin USP, 1 lb bot.	D 145.00	148.00
Lump, bag	.03 1/4	.05	Tartrate	...	.88	Powd. 1 lb bot.	D 148.00	150.00
Powdered, 350 lb bbls. D	.02 1/4	.03	Valerate	...	.89	Saponin, ex Quillaia, 5 lb tins. D	.90	1.10
Pyridine, 50 gal drums. gal	4.85	5.00	Small Sizes: 1 oz vials or cans,			Satin White, 500 lb bbls. D	...	.01 1/4
QUICKSILVER, see Mercury			50 oz. lots, 5c on extra; 500 cans,			Schaeffer's Salt, 250 lb bbls. wks. D	.80	.65
Quinidine Alk., 1000s tins. oz	...	.75	500z lots 3c on extra; 2500 cans,			Scopolamine, see hyoscyne.		
Sulfate, 1000s tins. oz	...	.50	500z lots, 2c on extra; single 100			Seidlitz Mixture, 22 1/2 lb bbls. D	.17	.18
Quinoidine, see Chinoidin			vials or cans, 5c extra. All minor			SILICA		
QUININE SULFATE, USP,			quinine salts sold and quoted basis			Crude, bulk, maues. ton	10.00	12.00
American, 1000s tins. oz	...	.50	1000s lots in 1000s cans. Sulfate			Refined, floated, bags. ton	18.00	30.00
100 tins, 1000s lots. oz	...	.57	and bisulfate sold basis 1000s			Air floated, bags. ton	32.00	50.00
Dutch, 1000s tins. oz	...	.50	lots in 1000s cans. Smaller orders			Extra, floated, bags. ton	55.00	65.00
Java, 1000s tins. oz	...	.50	or containers extra as above			SILVER, metal, American. oz	...	.99 1/4
Japanese, 1000s tins. oz	...	.50	schedule.			Foreign. oz	...	.65 1/4
QUININE SULFATE, USP,			R SALT, 250 lb bbls. wks. D	.49	.50	Colloidal, 16oz bot. oz	...	2.80
Acetate. oz	...	.28	Red Lead, see lead oxide			Silver Iodide, 16oz bot. oz	...	.69
Arsenate. oz	...	.88	Red Precipitate, see mercury			Nitrate, USP, 2000s bot. oz	.44 1/4	.45 1/4
Benzoate. oz	...	.88	Resorcinol, see resorcinol.			Nucleinate, 16oz bot. oz	.34	.38
Bisulfate, USP. oz	...	.50	Resorcinol tech, 100 lb kegs. D	1.35	1.50	Proteinates, 16oz bot. oz	.34	.38
Citrate. oz	...	.62	USP, 25 lb cans. D	2.25	2.35	Soap, Castile, 40 lb bxs. D	.20	.25
Dihydrchloride, USP. oz	...	.66	Rochelle Salt, USP, 225 lb bbls. D	.20	.21	Powd. USP, 250 lb bbls. D	.28	.39
Dibromide. oz	...	.66	Imp. USP, 300 lb bbls. D	.19 1/4	.20	Green, USP, 150 lb kegs. D	.07	.07 1/4
Dicarbonate, 100s tins. oz	...	2.50	Rosewater, triple, 5 gal. demis. gal	.90	1.10	Soapstone, see Tale, crude		
Ethyl Carbonate, 16oz. tins. oz	...	.91	Rotten Stone, lump imp., bbls. D	.07	.08	SODA ASH, 58% light		
Ferrocyanide. oz	...	.88	Lump selected, bbls. D	.09	.12	1-4 bags, deliv'd NY. 100 lb	...	2.19
Formate. oz	...	.85	Powdered, bbls. D	.02	.05	5 & Up bags, deliv'd NY. 100 lb	...	2.04
Glycerophosphate. oz	...	.88	Domestic, bags, mines. ton	24.00	30.00	1-4 bbls., deliv'd NY. 100 lb	...	2.44
Hydriodide. oz	...	.88	SACCHARIN, USP, 1 lb cans, 25 lb			5 & Up bbls., deliv'd NY. 100 lb	...	2.29
Hydrobromide, USP. oz	...	.62	Soluble, USP, 1 lb cans, 25 lb. D	1.90	2.10	Contract, Basis 58% bags c/l	...	1.38
Hydrochloride, USP. oz	...	.62	Sal Ammoniac, see Ammon. Chloride			100 lb	...	1.48
Hydrochlorosulfate. oz	...	.66	Salicin, USP, 1 lb cartons, 25 lb. D	4.50	4.75	Contract, Basis 58% dense bags	...	1.45
Hydchlide & Urea, USP. D	...	.88	Salol, USP, 100 lb drums. D	.75	.80	c/l wks. 100 lb	...	1.53
Hypophosphite. oz	...	.88	Salt, Common, see sodium chloride			Prmt. and spot, Basis 58% bags	...	1.53
Lactate. oz	...	.78	Salt Cake, c/l f.o.b. wks. ton	20.00	24.00	c/l wks. 100 lb	...	1.53
Phenolsulfonate. oz	...	.88	SALTPETRE, Double Refined			SODA, CAUSTIC, 76% solid		
Phosphate. oz	...	.74	Granular, 400-500 lb bbls.	...	.06	1-4 drums deliv'd NY. 100 lb	...	3.91
Salicylate, USP. oz	...	.63	c/l wks. D	...	.06 1/4	5 & Up drums deliv'd NY. 100 lb	...	3.76
Tannate, USP. oz	...	.45	Large Crystals, 350-400 lb bbls.,	...	.07 1/4	Ground & Flake, 76%		
			c/l wks. D	...	.07	1-4 drums, deliv'd NY. 100 lb	...	4.31
			Small Crystals, 350-400 lb bbls.,	...	.07	5 & Up drums deliv'd NY. 100 lb	...	4.16
			c/l wks. D	...	.07	1-4 bbls. deliv'd NY. 100 lb	...	4.56
			Powdered, bbls, c/l wks. D06 1/4	5 & Up bbls., deliv'd NY. 100 lb	...	4.41
			Imported, 500 lb bbls., NY. D	...				

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Solvay Tanners Soda

Solvay Liquid Caustic Soda

Solvay Calcium Chloride 73%—75%



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Chemicals

SODA CAUSTIC—(Continued)

Contract basis 76% c/l wks.	100 lb	3.10
Pmpt. and spot, Basis 76% c/l wks.	100 lb	3.20
Contract 74% low grade c/l wks. flat	100 lb	3.02
Ground & flake, 76% pmpt. and spot, wks c/l drs.	100 lb	3.60
Contract, 76% drums, c/l wks flat	100 lb	3.50
USP, stick, 10 lb cans.	100 lb	.19 : .21
Pure, stick, by alcohol.	100 lb	.25 : .27
SODIUM ACETATE, crys. 450 lb bbls wks.	100 lb	.05
Ton lots, bbls, wks.	100 lb	.04 1/2
Imp., 500 lb casks.	100 lb	.04
Aluminum Sulfate, see alum soda		
Arsenite, 4 lb mat. wks. drums gal	1.20	1.50
Drums, 8 lb material, wks. gal		.65 : .68
Benzoate, USP, 100 lb bbls.	100 lb	2.25
Bicarbonate, 400 lb bbls, NY, 100 lb bbls c/l wks.	100 lb	2.25
112 lb kegs wks.	100 lb	2.25
112 lb kegs, NY.	100 lb	2.50
Bichromate, 600 lb casks wks.	100 lb	.07 1/2
Casks, c/l wks.	100 lb	.07 1/2
Casks, NY.	100 lb	.07 1/2
Risulfite, dry powder, 500 lb bbls., wks.	100 lb	.04 : .04 1/2
Solution, 32-40°, 500 lb bbls. wks.	100 lb	1.25 : 1.75
Bromate, 100 lb cs.	100 lb	1.05
Bromide, USP, 450 lb bbls.	100 lb	.32
Cases, 50 lb	100 lb	.33
Imp. USP, 112 lb cs.	100 lb	.24 1/2 : .26
Caecoylate, USP, 5 lb bbs.	100 lb	5.50 : 5.75
Carbonate, sal soda, 350 lb bbls.	100 lb	1.30 : 1.35
lc/l NY.	100 lb	1.10 : 1.30
Works c/l	100 lb	
Monohydrate, 400 lb bbl.	100 lb	
lc/l NY	100 lb	2.40
Pure photograph.	100 lb	.06 : .08
kg	100 lb	

SODIUM—(Continued)

Chlorate, 112 lb kegs, wks.	100 lb	.06 1/2 : .06 1/2
Imported, 112 lb kegs.	100 lb	.06 1/2 : .07
Chloride, tech. 200 lb bags.	12.00	13.00
C. P., 300 lb bbls.	100 lb	.05 : .06
Chromate, 800 lb bbls.	100 lb	.05 : .06
Citrate, USP, IX, 100 lb kegs.	100 lb	.62 : .66
Citrate, USP, VIII, 100 lb kegs.	100 lb	.55 : .59
Cyanide, 98-98%, 100 lb cases wks.	100 lb	.22
Ton lots, wks.	100 lb	.22
73-76%, 100 lb cases, wks.	100 lb	.19 1/2
125-128%, 200 lb cs.	100 lb	.18 : .20
125-128%, 200 lb cs.	100 lb	.17 : .17 1/2
Fluoride, 300 lb bbls, wks.	100 lb	.08 1/2 : .09 1/2
Imp. 350 lb bbls.	100 lb	.08 1/2 : .09
Glycerophos. USP, crys. 25 lb cans.	100 lb	1.65 : 1.75
Powder, 25 lb tins.	100 lb	1.70 : 1.80
Solution, USP 25 lb tins.	100 lb	1.10 : 1.20
Hydroxide, see Soda Caustic		
Hypochlorite, Soln., 100 lb chys.	100 lb	.05
14 1/2% soln., 50 lb chys.	100 lb	.04
Hydrosulfite, 200 lb bbls, fob, wks.	100 lb	.22 : .24
Hypophosphite, USP, 25 lb cans.	100 lb	.70 : .75
HYPOSULFITE, tech. pea crys., 375 lb bbls, wks.	100 lb	2.90 : 3.30
Bbls. c/l wks.	100 lb	2.75
100 lb kegs wks.	100 lb	3.00 : 3.60
Imp.	100 lb	2.75 : 3.00
Granulated, bbls. wks.	100 lb	3.15 : 3.55
Bbls. c/l wks.	100 lb	3.00
Kegs wks.	100 lb	3.25 : 3.85
Regular crystals	100 lb	2.65 : 2.90
Iodide, USP, 25 lb jars.	100 lb	4.25 : 4.30
Metallate, 150 lb bbls.	100 lb	.55 : .70
Naphthionate, 300 lb bbls.	100 lb	.59 : .62
Nitrate, crude, 95%, 200 lb bps.	100 lb	2.60
c/l NY.	100 lb	2.35 : 2.40
Future, NY.	100 lb	
Double Refined, 400 lb bbls gran. c/l wks.	100 lb	.04 1/2
Nitrite, 500 lb bbls. wks.	100 lb	.08 : .08 1/2
Bbls. spot, makers.	100 lb	.08 1/2
Imp. 650 lb casks	100 lb	.08 1/2 : .09

SODIUM—(Continued)

Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls, wks.	100 lb	.25 : .27
Oxalate, neutral, 100 lb kegs.	100 lb	.39
Perborate, 275 lb bbls.	100 lb	.23 1/2
Imp., 225 lb drs.	100 lb	.21
Peroxide, 200 lb cases.	100 lb	.25 : .27
Phosphate, di-sodium, tech 550 lb bbls.	100 lb	.03 1/2 : .03 1/2
USP, gran. 275 bbls.	100 lb	.07 : .07 1/2
Imp. gran.	100 lb	.05 1/2 : .06
USP, recryst. 275 bbls.	100 lb	.10 : .11
Mono-sodium 100 lb kegs.	100 lb	.24 : .26
Tri-sodium tech. c/l, bbls.	100 lb	.03 1/2 : .04
Picramate, 100 lb kegs.	100 lb	.60
Para-Toluene Sulfonate, 175 lb bbls.	100 lb	.08 : .09
PRUSSIAN, yellow, 250 lb bbls.	100 lb	.10 1/2
Imp., 450 lb cks.	100 lb	.09 1/2 : .10
Pyrophosphate, 100 lb kegs.	100 lb	.24 : .26
Salicylate, 100 lb kegs.	100 lb	.40
Second Hands, USP, kegs.	100 lb	.37 : .40
Silicate, 60° 700 lb bbls, f.a.s. NY.	100 lb	2.00
Works, 1000 lb drums.	100 lb	1.90
Works, tanks	100 lb	1.75
40° domestic, 700 lb c/l f.o.b. wks.	100 lb	.80
Works, 1000 lb drums.	100 lb	1.90
Works, tanks	100 lb	1.75
Spot, drums, bbls.	100 lb	1.30 : 1.50
Silicofluoride, 450 lb bbls, NY.	100 lb	.06
Sulphate, see Glauber's Salt		
Sulfate, Anhydrous, 550 lb bbls, c/l	100 lb	.03 1/2 : .05
Sulfide, 60% solid, 650 lb drs. lc/l wks.	100 lb	.04 1/2 : .05
Drs. c/l wks.	100 lb	.03 1/2 : .04
Imp. 700 lb drs, NY.	100 lb	.03 1/2
60% broken, 650 lb drs wks.	100 lb	.04 1/2 : .05
Imp., 500 lb drs, NY.	100 lb	.03 1/2 : .04
30% crys. 440 lb bbls, wks.	100 lb	.02 1/2 : .02 1/2
Imp., 400 lb bbls.	100 lb	.02 1/2 : .02 1/2
Sulfite, crys. 400 lb bbls, wks.	100 lb	.03 1/2 : .03 1/2
Anhydrous, 400 lb bbls.	100 lb	.09 1/2 : .10

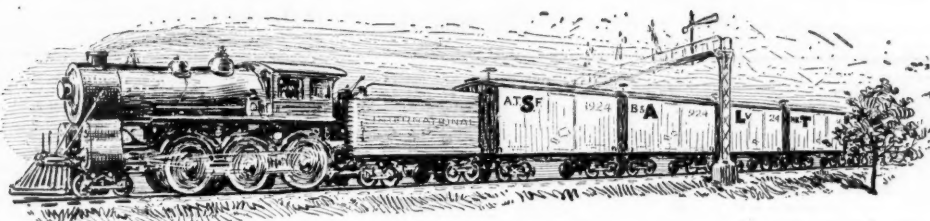


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Chemicals

SODIUM—(Continued)			SULFUR, crude bulk, c/1 NY...			Thymol, USP, 25 lb tins.....		
Sulfocarbonate, USP 100 lb			Crude, f.a.b. mines.....	18.00	19.00	Iodide, 5 lb boxes.....	3.05	3.15
kgs.....	.35	.37	Brimsone, 250 lb bags, c/1 100 lb	14.00	15.00	TIN, Metal Strains, NY.....	6.75	7.00
Sulfocyanide, 400 lb bbls.....	.45	.47	Less c/1 bags NY.....	1.85	2.10	American standard, NY.....	40.50	40.50
Tungstate, crys. 100 lb kgs.....	.60	.65	Roll, 500 lb bbls, c/1 NY.....	2.15	2.15	99% American, NY.....	40.00	40.00
Anhydrous, kgs.....	...	.75	Less c/1 bags NY.....	2.20	2.45	Nichloride, 50% soln. 100 lb		
Solvent Naphtha, see Naphtha			Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05	bbls, wks.....	...	.12
Sparteln Sulfate, USP, 25 lb bulk	.30	.40	Light, 100%, 260 lb bbls, 100 lb	2.60	3.15	Crystals, 500 lb bbls, wks.....	...	.31½
Single oz. vial.....	...	.47	Rubbermakers 100%, 240 lb	2.50	3.30	100 lb kgs, wks.....	...	.32
Starch, rice, 140 lb bags.....	.09	.10	bbls, NY.....	2.50	3.30	Oxide, 400 lb bbls, wks.....	...	.48
STRONTIUM Bromide, USP, 50 lb			Commercial, 99%, 150 lb bgs.	1.35	1.65	100 lb kgs, wks.....	...	.50
kgs.....	...	.36	NY.....	1.35	1.65	Tetrachloride, 1000 lb drs. wks.	...	.24½
Carb. 600 lb bbls, wks.....	...	.07	For Dusting, 99%, 100 lb	2.00	2.50	Toluidine, 350 lb bbls.....	1.00	1.10
100 lb kgs wks.....	...	.08	bgs. NY.....	2.00	2.50	Sulfate, 350 lb bbls.....	...	1.10
Iodide, USP, 25 lb jars.....	...	4.00	Flowers, 100%, 240 lb bbls.	3.00	3.55	Toluene, 8000 gal tank cars, wks.	...	.30
Nitrate, 600 lb bbls, wks.....	...	.10	NY.....	3.00	3.55	110 gal. drs. wks.....	...	.31
Imp., bbls, NY.....	...	.09½	Precipitated, 125 lb bbls NY.....	.17	.20	Toluidine, Mixed, 900 lb drs. wks.	...	.33
Sulicylate, USP, 100 lb kgs.....	.70	.75	Lac, 125 lb bbls NY.....	.07	.10	Tricetin, 50 gal. drs., wks.....	...	.45
STRYCHNINE Alkaloid, USP, crys.			Sulfur Chloride, red, 700 lb drs.	...	.07	Triphenolphenol, 100 lb cases.....	...	1.00
100 oz. tins.....	...	.64	wks.....	...	.07	Trisinal, see Sulfonethymethane	...	...
Alk. powd., USP.....	...	.54	150 lb chys. wks.....	...	.08	Triphenylguanidine.....	...	.80
Acetate.....	...	.72	Yellow, 700 lb drs. wks.....	...	.05	Triphenyl Phosphate, 450 lb bbls.	...	.55
Glycerophosphate, USP.....	...	.72	150 lb chys. wks.....	...	.07	Tripoli, 500 lb bbls.....	2.50	3.00
Hydrobromide.....	...	.72	Sulfur Dioxide, 100 lb cyl.....	...	.08½	Tungsten NY.....	8.75	9.50
Hydrochloride.....	...	.72	Iodide, USP, VIII, 5 lb bot.....	...	4.55	Ultramarine Blue.....	...	.18
Hypophosphite.....	...	.82	Sulfuric Ether, see Ether	...	...	UREA, pharm. 112 lb cases.....	...	.50
Nitrate, USP.....	...	.72	Sulfuryl Chloride, 600 lb drs.....	75	1.00	VANILLIN, USP, 500 oz cans.....	...	.49½
Phosphate.....	...	.72	TALC, Italian 220 lb bags NY.....	40.00	50.00	Cans, 80 oz.....	...	.50
Sulfate, USP, crys. powd.....	...	.43½	Refined white, bags.....	60.00	80.00	Cans, 16 oz.....	...	.51
Saccharinate.....	...	1.80	French, 220 lb bgs., NY.....	30.00	35.00	Second Hands.....	42½	.45
Strychnine preparations quoted bases			Refined, white, bags.....	35.00	45.00	Venetian Red.....	...	.05
100 oz lots in 1000 tins. Small Sizes;			Dom., crude, 100 lb bags NY.....	13.00	15.00	Verdigris, see Copper Subacetate	...	...
¼ oz vials, 50c extra; ¼ oz vials, 25c			Refined, 100 lb bags NY.....	16.00	18.00	Vermilion, Amer. 100 lb kgs.....	.35	.40
extra; single ounce vials. 7c extra. Lots			Tartar Emetic, tech. 700 lb bbls.	.26	.28	English, kgs.....	1.30	1.35
of 25 oz. 5c higher than above			USP, 300 lb bbls.....	.31	.34	Veratrine Sulfate, 1 oz vial.....	...	1.85
schedule. Lots of less than 25 oz.			Terpin Hydrate, USP, 100 lb kgs.....	.60	.63	Hydrochloride, 1 oz vial.....	...	1.85
10c higher per oz.			Terpineol, CP 1000 lb drums.....	.43	.50	Veronal, see Acid Diethylbarbituric	...	...
Sugar Coloring, bbls.....	.63	.72	Cans, 50 lb.....	.52	.54	WHITE LEAD, see lead, white.	...	...
Sugar Milk USP, 200 lb bbls.....	.22	.23	Imported, cans, 25 lb.....	.95	1.20	White Precipitate, see mercury.	...	...
Second Hands, USP, bbls.....	.21	.22	Terpenyl Acetate, 25 lb cans.....	1.65	1.85	Whiting, 200 lb bags, c/1 wks. ton	13.00	15.00
Sulfonal, see Sulfonmethane			Terra Alba, No. 1, 300 lb bbls.....	1.85	1.90	Bags, 1c/1 NY.....	...	18.00
Sulfonethymethane, USP, 10 lb bbs.	3.85	4.05	No. 2, bbls.....	1.25	1.55	Gliders, bags, NY.....	13.50	15.00
Sulfonmethane, USP, 10 lb bbs.....	2.65	2.85	Theobromine Alk., 5 lb cans.....	4.00	4.10	French, bags, NY.....	...	18.00
			and Sod. Sulicylate, 1 lb bot.....	3.42	3.42	English, bags, NY.....	...	21.00
			Thiocarbamide, 170 lb bbls.....	.27	.29	Witch Hazel Extract, 50 gal. bbls. gal	1.20	1.25

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XYLENE, 3° dist. range, nitration	.45	.50
110 gal. drs. NY.....gal	.50	.55
5° dist. range, 8000gal. tanks		
Wks. ....gal	.35	.40
110 gal. drs. wks. ....gal	.40	.45
10° dist. range, drums, wks. ....gal	.35	.40
Commercial, 110 gal. drs., wks. ....gal	.32	.33
Tanks, wks. ....gal	.26	.27
Xylidine .....lb	.40	.45
YARA YARA, 1lb tins. ....lb	1.75	2.00
Yohimbin Hydrochloride, 1 oz. vial. ....oz	3.00	3.57
ZINC, METAL, high grade, slabs		
c/l NY .....lb	8.25	
Common Slabs, c/l NY. ....lb	6.12	6.20
Mossy, 25 lb bns NY.....lb		.14
Ammonium Chloride, powd., 400 lb		
bbls. ....lb	.07½	.08
Carb. tech. 150 lb kegs NY.....lb		.23
USP, 100 lb kegs. ....lb		.33
Chloride, fused, 600 lb drs. wks. ....lb		.06
Drs. c/l wks. ....lb	.04½	.05
Imp. drs. NY.....lb	.04½	.05
Granulated, 500 lb bbls. wks. ....lb		.07
Imported, drs. NY.....lb		.06½
Solution, 50%, tanks wks. ....lb	2.25	2.50
USP, 25 lb jars .....lb	.27	.29
Cyanide, 100 lb drs. ....lb	.36	.37
Dust, 100 lb tins wks. ....lb	.09½	.10
500 lb bbls, kegs, c/l wks. ....lb		.08½
500 lb bbls, kegs, c/l wks. ....lb		.08½
Iodide, 5 lb bots. ....lb	5.28	
Nitrate, 25 lb jars. ....lb		.45
Oxide, Amer. 300 lb bbls, wks. ....lb	.08½	.08½
Bbls. c/l wks. ....lb	.08½	.08½
French, 300 lb bbls wks. ....lb	.10½	.12½
Bbl c/l wks. ....lb	.10	.12
Bags, c/l wks. ....lb	.09½	.10½
USP, 100 lb bbls. c/l. ....lb		.17
Ten lots, wks. ....lb		.18
Imported, white seal, bbls. ....lb		.12
Green seal, bbls. ....lb		.10
USP, 100 lb bbls. ....lb		.19½
Stearate, USP, 50 lb bbls. ....lb		.23
Sulfate, 400 lb bbls, wks. ....lb	.03½	.03½
Bbls. c/l wks. ....lb		.03
USP, 100 lb kegs .....lb	.08	.09
Sulfocarbonate, 100 lb kegs. ....lb	.32	.34

Oils

Castor, No. 1, 400 lb bbls. ....lb	.16	.16½
80 lb cases .....lb		.17
No. 3, bbls. ....lb	.15½	.16
Blown, 400 lb bbls. ....lb		.16½
China Wood, bbls., spot NY.....lb	.14½	.14½
Tanks, Spot, NY.....lb	.13½	.13½
June forward, arrival NY bbls. ....lb	.14	.14½
June forward, arrival NY tanks. ....lb	.13	.13½
Coast, tanks, June, forward. ....lb	.12½	.13
Coconut Ceylon, 375 lb bbls., NY. ....lb	.09½	.09½
8000 gal. tanks, NY.....lb		.08½
Cochin, 375 lb bbls., NY.....lb	.10½	.10½
Tanks, NY .....lb		.09½
Mandla, tanks, P. Coast. ....lb	.07½	.07½
Edible, bbls, NY .....lb	.10½	.10½
Cod Newfoundland, 50 gal. bbls. ....gal	.63	.65
Tanks, NY .....gal	.58	.60
Copra, bags .....lb	.05½	.05½
Corn, ref. 375 lb bbls., NY.....lb	.11½	.12
Crude, tanks mills .....lb	.08½	.08½
Bbls., NY .....lb	.11½	.11½
Cottonseed, crude tks, mill. ....lb	.07½	.08
P. S. Y., 100 bl. lots NY.....lb	.09½	.09½
White, 100 bbl. lots, NY.....lb		.12½
Winter yellow, 100 bbls, NY.....lb	.11½	.12
Degras, Amer 50 gal. bbls., NY. ....lb	.04½	.05½
English, light, bbls, NY.....lb		.06
Dark, bbls, NY.....lb		.04
Neutral, bbls, NY.....lb	.11	.14
Moellon, bbls, NY.....gal		.50
Greases, choice white, bbls, NY. ....lb	.08	.08½
Yellow .....lb		.06½
Brown .....lb		.06½
House .....lb		.06½
Bone naphtha .....lb		.06½
Herring, Tanks, Coast .....gal		...
Horse, 375 lb bbls, NY.....lb	.07½	Nom.
Lard, prime steam bbls. ....lb	.11½	.12
Compound, bbls. ....lb	.12	.12½

LARD OIL, Edible prime, bbls. ....lb		.13½
Off prime, bbls. ....lb		.13
Extra, bbls. ....lb		.11½
Extra No. 1, bbls. ....lb		.11
No. 1 bbls. ....lb		.10½
No. 2 bbls. ....lb		.10½
LINSEED, raw c/l bbls, spot. ....gal		.94
Five bbls., raw .....gal		.97
Bolled, 5 bbl. lots. ....gal		.99
Double bolled 5 bbl. lots. ....gal		1.00
Raw, c/l, bbls. ....gal		.99
Tanks .....gal		.88
July-Sept. c/l bbls. ....gal		.92
Imported, bbls, NY.....gal		...
Tanks, NY .....gal		...
Menhaden, crude bbls, wks. ....gal		...
Crude, tanks, Balt. ....gal		.50
Light strained, tanks. ....gal		...
Light strained, bbls, NY.....gal	.61	.63
Yellow bleached, bbls, NY.....gal	.63	.65
Extra bleached, bbls, NY.....gal	.67	.69
Blown, bbls., NY .....lb		.10
Nutsfoot, 20° c.t. bbls, NY.....lb		.18½
Pure, bbls, NY .....lb		.15
Extra, bbls., NY .....lb		.11
Oleo Oil, No. 1, bbls, NY.....lb	.12½	.12½
No. 2, bbls., NY.....lb	.10½	.10½
No. 3, bbls., NY.....lb		.09½
OLIVE, denatured bbls, NY.....gal	1.20	1.22
Edible, bbls., NY.....gal	2.00	2.25
Foots, bbls, NY .....lb	.09½	.09½
Shipments .....lb	.09½	.10
Palm Lagos, 1500 lb cases. ....lb	.07½	.07½
Niger cases .....lb	.06½	.06½
Bonny old Calabar, cases. ....lb	.06½	.07
Palm Kernel, bbls., NY.....lb	.09	.09½
Peanut, refined bbls, NY.....lb	.15½	.16
Crude, mills buyers' tks.lb		...
Crude, bbls, NY.....lb		...
Perilla, bbls., NY.....lb	.14½	.14½
Poppyseed, bbls, NY.....gal	2.25	2.50

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Oils and Fertilizers

Rapeseed, refined bbls. NY.....gal	.82	: .84
Blown, bbls. NY, 8 lbs.....gal	...	: 1.00
Fed Oil, distilled, bbls.....lb	.08%	: .09½
Saponified, bbls.....lb	.08%	: .09½
Tacks.....lb	.08	: .08%
Salmon, 8000 gal. tks. Coast.....gal	...	: ..
Sesame, edible bbls.....lb	.11%	: .11%
Sod Oil, bbls. NY.....gal	...	: .45
SOYA BEAN, crude tks. Coast.....lb	.10	: .10½
Crude, Tks., D.P., NY.....lb	.10½	: .10½
Crude, bbls. NY.....lb	.12	: .12½
Sperm, 38° c.t. bichd. bbls. NY.gal	...	: .89
45° cold test, bichd. bbls. NY.gal	...	: .84
STEARIC ACID, s.p. 200 lb bags. lb	.10%	: .11
Double pressed, bags.....lb	.11½	: .11½
Double pressed, bgs., saponified. lb	.11½	: .11½
Triple pressed, bgs., distilled. lb	.13	: .13½
Triple pressed, bgs., saponified. lb	.13	: .13½
Stearine, oloo, bbls.....lb	...	: .10½
Tallow, edible, tierces.....lb	...	: .07
City, extra, loose.....lb	...	: .07
Tallow Oil, acidless tks. NY.....lb	...	: .09½
Bbls., c/l NY.....lb	...	: .10½
Walnut, crude bbls. NY.....lb	...	: ..
Whale, nat. winter bbls. NY.....gal	...	: .77
Blehd. winter bbls. NY.....gal	...	: .81
Extra Blehd. bbls. NY.....gal	...	: .83
Crude, No. 1, tanks Coast.....gal	...	: ..
Crude, No. 2, tanks Coast.....gal	...	: ..
Crude, No. 3, tanks Coast.....gal	...	: ..

Fertilizer Materials

Ammon. Sulf., bulk wks.....100 lb	2.70	: 2.75
Double, bgs. f.a.s. NY.....100 lb	2.60	: 2.65
Single bag, wks.....100 lb	2.75	: 2.80
Blood, dried f.o.b. NY.....unit	3.10	: 3.20
Chicago.....unit	2.75	: 3.00
Bone, 3 & 50 ground steamed. ton	20.00	: 23.00
Raw, Chicago.....ton	...	: 25.00
Cyanamide wks.....unit	1.90	: 2.00
Fish Scrap, dried wks.....unit	3.00	: 3.25
Acid, Bulk. 7 & 3½. Deliv.	...	: ..
Norfolk & Balt. basis. unit	...	: 2.75

NITRATE SODA, NY.....100 lb	2.60	: 2.65
Future, July, Aug. f.o.b. mines.....100 lb	2.35	: 2.40
Phosphate Rock, f.o.b. mines.....ton	...	: 2.25
Florida Pebble, 68%.....ton	...	: 2.50
Florida Pebble, 70%.....ton	...	: 2.50
Florida Pebble, 75-74%.....ton	...	: 2.75
Tennessee, 72%.....ton	...	: 5.50
Phosphate Acid, 16% Bulk wks.....ton	7.50	: 8.00
PERASH	...	...
Pot. Chloride, 80% basis, bgs. ton	...	: 31.10
Pot. Sulfate, 80% basis, bgs. ton	...	: 41.27
Dbis. Manure Salts, 48% basis.....ton	...	: 23.72
Manure Salts, 30% basis, bulk. ton	...	: 15.33
Manure Salts, 20% basis, bulk. ton	...	: 9.50
Kainite, 12.4% basis, bulk. ton	...	: 6.50
Bulk in bags, \$2.00 extra.	...	...
Prices c.i.f. Atlantic & Gulf Ports.	...	...
Steamed Bone Meal, 3 & 50. NY. ton	...	: 25.00
Tankage, ground, NY.....unit	2.65	: 2.75
High grade f.o.b. Chicago.....unit	2.25	: 2.35

Naval Stores

(Carloads ex-yard N. Y.)	...	...
Spirits Turpentine, bbls.....gal	...	: .86
Wood Turpentine, stm. distd. bbls. gal	...	: .86
Destructive distilled, bbls.....gal	...	: .68
Pine Oil, stm. dist'd, bbls.....gal	...	: .60
Pitch, prime.....bbl	...	: 5.50
Rosins, (Sold in 600 lb bbls., gross for net, quotations based on a unit of 280 lb.)	...	...
B.....280 lb	...	: 5.60
D.....280 lb	...	: 5.85
E.....280 lb	...	: 5.85
F.....280 lb	...	: 6.00
G.....280 lb	...	: 6.05
H.....280 lb	...	: 6.10
I.....280 lb	...	: 6.10
K.....280 lb	...	: 6.15
M.....280 lb	...	: 6.25
N.....280 lb	...	: 6.50
WG.....280 lb	...	: 7.25
WW.....280 lb	...	: 7.75

Rosin Oil, first run, 50 gal. bbls. gal	...	: .40
Second run, bbls.....gal	...	: .45
Tar, kiln-burnt.....bbl	...	: 10.50
Retort.....bbl	...	: 10.50

Dye and Tan Woods

Barwood, chips.....lb	.04½	: .05
Camwood, chips.....lb	.09	: .13
Divi Divi, pods 100-200 lb bags. ton	42.00	: 43.00
Fustic, sticks.....ton	30.00	: 32.00
Chips.....lb	.04	: .05
Hemlock, bark.....ton	...	: 20.00
Hyperic. chips.....lb	.06½	: .07
LOGWOOD, sticks.....ton	23.00	: 27.00
Chips 150 lb bags.....lb	.03	: .03½
Mangrove bark, African.....ton	34.00	: 36.00
Myrcobalsam, 150 lb bags J1.....ton	39.00	: 41.00
B1.....ton	36.00	: 38.00
J2.....ton	32.00	: 33.00
nutgalls, see Crude Drugs.	...	...
Gak bark, whole.....ton	20.00	: 23.00
Ground.....ton	...	: 25.00
Quercitron bark, rough.....ton	...	: 10.00
Ground.....ton	20.00	: 25.00
Sumac, Sicily, 160 lb bags.....ton	157.00	: 160.00
Virginia, 150 lb bags.....ton	40.00	: 45.00
Valonia Cups, 30-31% tan.....ton	32.00	: 34.00
Beard, 42% tan, 150 lb bgs. ton	47.00	: 49.00
Mixtures, 38% tan.....ton	37.00	: 38.00
Wattle bark, 150 lb bgs.....ton	34.50	: 35.00

Extracts

Range of prices includes quality range for large quantity.	...	...
Annatto, fine.....lb	.26	: .29
Archil, double 600 lb bbls.....lb	.13	: .14
Triple, 600 lb bbls.....lb	.16	: .17
Cone., 600 lb bbls.....lb	.18	: .20

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Chestnut, clarified, 25% tks. wks. D	.01% :	.01%
Bbls., wks. D	.02% :	.03
Powd., 60% 100 lb bags, wks. D	.05% :	.05%
Decolorized, bags, wks. D	.06% :	.07
Cudbear, English D	.18 :	.20
Cutch, Rangoon, 100 lb bales. D	.14 :	.16
Borneo, solid, 100 lb bales. D	.04% :	.05%
Liquid, 45 lb bbls. D	.07% :	.11
Tablets, 120 lb boxes. D	.13 :	.14
Flavine D	.95 :	1.00
Fustic, solid 50 lb boxes. D	.20 :	.22
Crystals, 100 lb boxes. D	.20 :	.22
Liquid, 51°, 600 lb bbls. D	.10 :	.14
Gall extract D	.16 :	.18
Gambier, 25% liq. 450 lb bbls. D	.10% :	.13
Common, 200 lb cases. D	.11 :	.11%
Singapore cubes, 150 lb bags. D	.18 :	.20
HEMATINE, Paste, 500 lb bbls. D	.09% :	.13
Crystals, 400 lb bbls. D	.12 :	.20
Hemlock, 25% 600 lb bbls. wks. D	.03% :	.03%
Hypernic, 51°, 600 lb bbls. D	.16 :	.18
Indigo, Madras, bbls. D	.85 :	.90
Manilla, bbls. D	.. :	1.30
Larch, 25%, 600 lb bbls., wks. D	.03% :	.04
Powd. 100 lb bags, wks. D	.07 :	.08
Logwood, 51°, 600 lb bbls. D	.. :	.09
Lower grades D	.07 :	.08
Solid, 50 lb boxes. D	.09 :	.15
Madder, Dutch D	.28 :	.30
Manrove, 55% 400 lb bbls. D	.04% :	.05
Myrobalans, 25% liquid bbls. D	.04 :	.05
50% solid, 50 lb boxes. D	.05 :	.05%
Oak, tanks, wks. D	.04 :	.04%
23-25% liq. 600 lb bbls. wks. D	.04% :	.04%

Osage Orange, 51° Liquid. D	.07 :	.08
Powd. 100 lb bags. D	.14 :	.15
Persian Berries D	.27 :	.30
QUEBRACHO, 35% liquid tks. D	.08 :	.03%
450 lb bbls. D	.03% :	.04
35% bleaching, 450 lb bbls. D	.04% :	.05%
Solid 65% 100 lb bales. D	.04 :	.04%
Clarified bales D	.04% :	.04%
Quercitron, 51° 450 lb bbls. D	.07% :	.08
Powdered, 100 lb boxes. D	.09 :	.13
Spruce, 23% liquid tanks wks. D	.01 :	.01%
Powd. 50% 100 lb bags wks. D	.02 :	.02%
Sumac, liquid 450 lb bbls. D	.07 :	.08
Stainless, 600 lb bbls. D	.11 :	.12

DYERS' SUNDRIES

Albumen, technical, egg 200 lb cs. D	.. :	1.25
Blood, 100 lb drs. D	.40 :	.45
Egg Yolk, Spray, 150 lb cs. D	.45 :	.65
British Gum, 140 lb bags c/l 100 lb	3.99 :	4.14
Bags, lc/l 100 lb	4.20 :	4.35
Dextrin, corn 140 lb bags c/l 100 lb	.. :	3.64
Bags, lc/l 100 lb	.. :	3.74
Yellow, bags c/l 100 lb	.. :	3.69
Potato 220 lb bags c/l D	.. :	.07%
Bags, lc/l D	.07% :	.08%
Yellow, 220 lb bags. D	.. :	.08
Tapioca, 200 lb bags, lc/l. D	.09% :	.10%
Prussian blue D	.60 :	.62
Sago Flour, 150 lb bags. D	.04% :	.05
STARCH, powd. 140 lb bgs. c/l 100 lb	.. :	3.17
Bags, lc/l 100 lb	.. :	3.27
Pearl, 140 lb bags c/l 100 lb	.. :	3.07
Bags, lc/l 100 lb	.. :	3.17
Potato, domestic, 200 lb bags. D	.05% :	.06
Imported, bags duty paid. D	.06 :	.06%
Tapioca Flour, high grade bags. D	.06 :	.06%
Medium grade bags D	.04% :	.05
Low grade, bags D	.03% :	.04
Turkey Red Oil, bbls. D	.11 :	.12
Yolk Oil, bbls. D	.. :	.35

Crude Drugs

Acetoides Gum, yel. D	.18 :	.20
ACONITE Leaves, bales. D	.10 :	.12
Root, USP, bags D	.39 :	.41
Agar Agar, 1, 200 lb bales. D	1.55 :	1.60
No. 2, bales. D	.. :	1.40
No. 3 bales. D	.. :	1.30
Agaric, white, cases D	.. :	4.00
Almonds, bitter bags bxs. D	.45 :	.50
Sweet, bags D	.57 :	.60
Meal, tins, boxes D	.26 :	.28
Aletris Root, bags D	.50 :	.53
Alkanet Root, bags D	.06 :	.06%
Aloes, Barbados, 120 lb bbls. D	.65 :	.70
Cape, 400 lb cases D	.08% :	.09
Curacao, 100 lb cases D	.09 :	.09%
Socotrine, whole 100 lb cs. D	.32 :	.34
Althea Root, cut cases. D	.22 :	.24
Whole bags D	.08 :	.09
Ambergris, black boxes D	8.00 :	10.00
Grey, boxes D	.. :	26.00
Ammoniac, tears, bags D	.68 :	.73
Angelica Root, dom. bags. D	.12 :	.13
Angostura Bark, bags D	.67% :	.09
Anise, Levant bags D	.15 :	.16
Russian, bags D	.13 :	.14
Star, cases D	.11% :	.12
Spanish, bags D	.14% :	.15
Annatto Seed, 200 lb bags. D	.24 :	.25
ARABIC GUM,		
White, No. 1, 200 lb bags. D	.26 :	.27
Seconds, 250 lb bags. D	.24 :	.25
Sorts, amber, 200 lb bags, bbs. D	.12 :	.13
Powd., USP, 300 lb bbls. D	.18 :	.18%
Areca Nuts, 150 lb bags. D	.09 :	.10
Powd., 200 lb bbls. D	.12 :	.13
Arnica Flowers, bales D	.08% :	.09
Root, bags D	.20 :	.23
Arrowroot, Amer., powd. bbls. D	.08 :	.09
St. Vincent, powd. bbls. D	.13 :	.14
Asafoetida, USP, 250 lb cases. D	.19 :	.20
Powd. 50 lb bms. D	.40 :	.42
BALM GILEAD SUDS, bags. D	.40 :	.45
Balmory Herb, bales D	.. :	.14

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Crude Drugs

BALSAMS								
Copaiba, Para, 80 lb cs.....	26	: 28	Cannabis, true imp, bags.....	5.75	: 6.00	Clover Tops, bags.....	20	: 22
South American, 80 lb cs.....	33	: 34	American (no assay) bales.....	.30	: .40	Cloves, Zanzibar, 135 lb bales.....	27	: 28
Fir Canada, cans.....	12.50		USP.....	.70	: .85	Ambonyas, bales.....	32	: 33
Oregon, bbls, cans.....	1.35	: 1.40	Cantharides, Chinese cases.....	.90	: .95	Penang, bales.....	41	: 43
Peru, 120 lb cases.....	1.85	: 1.95	Powdered, boxes.....	1.05	: 1.10	Cochineal, USP, boxes.....	34	: 35
Tolu, 90 lb cases.....	1.50	: 1.60	Cantharides, Russian, cases.....	.90	: .95	Coca Leaves, Huancayo bags.....	...	...
Bamboo Brier Root, bags.....	.05 1/2	: .06	Powdered, boxes.....	1.00	: 1.10	Truxillo, bags.....	...	...
Barberry Bark, tree bales.....	.12	: .14	Caraway Seed, African, bags.....	.19	: .20	Cohosh Root, Black bags.....	.11	: .13
Root, bags.....	.80	: .90	Dutch, 110 lb bags.....	.19 1/2	: .20	Blue, bags.....	.12 1/2	: .13 1/2
Bayberry Bark, bales.....	.10	: .12	Cardamom, bleached, cases.....	1.65	: 1.80	Colechicum Root, bags.....	.07	: .08
Wax, bbls.....	.20	: .22	Decorticated, cases.....	1.55	: 1.65	Seed, bags.....	.08	: .09
Belladonna Leaves, bales.....	.24	: .27	Green, grinding, bags.....	1.00	: 1.10	Colocynthis, apples, cases, bales.....	...	...
Root, bags.....	.11	: .13	Carnauba Wax, Flor. bags.....	.44	: .45	Pulp, USP, bales.....	.27	: .28
Box Wax, white cases.....	.40	: .42	No. 1 N Country bags.....	.36	: .38	Colemo Root, whole bags.....	.02 1/2	: .03
Yellow, refined, cases.....	.27	: .32	No. 2 N Country bags.....	.29	: .30	Coltsfoot Leaves, bags.....	.05	: .06
Crude, bags.....	.23	: .25	No. 3 Fatty Gray, bags.....	.20	: .22	Comfrey Root, bags.....	.13	: .14
Benzoin Gum, Siam, boxes.....	1.30	: 1.35	No. 3 Chalky, bags.....	.20	: .22	Condurango Bark, bales.....	.35	: .38
Sumatra, 80 lb boxes.....	.22	: .25	Cascara Amarga, 150 lb bales.....	1.25	: 1.35	Conium Seeds, bags.....	.12	: .14
Berberis Aquifolium Root, bags.....	.13	: .14	Cascara Sagrada, bales, 1920-22 bark.....	.35	: .37	Copaiba Balsam Para, see Balsams	...	...
Beth Root, bags.....	.20	: .22	1923 bark.....	.33	: .34	Copal Gum.....	.12	: .13 1/2
Blackhaw Bark, root, bales.....	.38	: .40	Cascara Bark, quills bales.....	...	...	Coriander Seed, Bombay bags.....	.06 1/2	: .07
Tree, bales.....	.20	: .22	Siftings, bbls.....	...	...	Morocco, bags.....	.08	: .08 1/2
Blood Root, bags.....	.14	: .15	Cassia Bark, 66 lb cases.....	.12	: .12 1/2	Bleached, bags.....	.13	: .14
Blueflag Root, bags.....	...	...	China, Whole Rolls, cases.....	.10	: .10 1/2	Corn Silk, bales.....	.04 1/2	: .05 1/2
Boldo Leaves, bales.....	.30	: .31	Saigon, assort, bales.....	.23	: .25	Cotton Root Bark, bales.....	.14	: .16
Bonest Herb, bales.....	.07	: .08	Cassia Fistula, baskets.....	.09	: .10	Cramp Bark, so-called bales.....	.07	: .08
Borage Flowers, bales.....	.15	: .17	Castor Beans, bags.....	.03	: .03 1/2	True, bags.....	.32	: .34
Bryonia Root, bags.....	.09	: .10	Castoreum, 1 lb bot.....	4.00	: 4.50	Cranesbill Root, bags.....	.16	: .18
BUCHU LEAVES, short, 250 lb bales.....			Catchu Gum, bags.....	.09	: .10	CUBEB BERRIES, XX bags.....		
Less, bales.....	.76	: .85	Catnip Herb, bales.....	.23	: .29	Powdered, boxes.....	.66	: .70
Long, bales.....	...	...	Celery Seed, 220 lb bags.....	.28	: .29	Culvers Root, bags.....	.70	: .75
Buckthorn Bark, bags.....	.05 1/2	: .06	Ceresin Wax, white bags.....	.10 1/2	: .11	Cumin Seed, Levant bags.....	.25	: .27
Burdock Root, bags.....	.14	: .15	Yellow, 200 lb bags.....	.09	: .10	Cumin Seed, Morocco, bags.....	.22	: .23
Burgundy Pitch, dom., 110 lb stands Gross for net.....	...	: .05	CHAMOMILE FLOWERS, Roman bales.....			...	.24 1/2	: .25
Calabar Beans, bags.....	.12	: .14	Hung. cases bales.....	.65	: .70	Cuttlefish Bone, Trieste, straps.....	.13	: .14
Calamus Root, bleached cases.....	.33	: .35	Charcoal Willow, powd, bbls.....	.07	: .08	Jewellers, large, straps.....	...	: .55
Unbleached, bags.....	.06	: .07	Wood, powd, bbls.....	.06	: .06 1/2	Small, straps.....	...	: .35
Calendula Petals, imp. bales.....	.22	: .23	Chestnut Bark, bags.....	.04	: .05	French straps.....	.13 1/2	: .14
Calisaya Bark, bales, powd.....	.25	: .26	Herb, bales.....	.07	: .08	Powdered, boxes.....	.13	: .14
Camphor, see Chemicals	...	...	Chicle Gum, bags.....	.06	: .06 1/2	Broken, boxes.....	...	: .07
Canary Seed, Morocco bags.....	.07 1/2	: .08 1/2	Chitetta, bales.....	.60	: .65	Damar Gum, 136 lb cases.....	.24	: .25
South American, bags.....	.07	: .07 1/2	Cinchona Bark, red quills bales.....	.10	: .12	Damiana Leaves, bales.....	.13	: .14
Candella Wax, bags.....	.22	: .25	Broken, bales.....	.23	: .25	Dandelion Root, Imp, bags.....	.32	: .34
Canella Alba Bark, bales.....	.50	: .52	Cinnamon, Ceylon, bales.....	.23	: .24	Deer Tongue Leaves, bales.....	.13 1/2	: .14 1/2
			Ceylon, Broken, bales.....	.15	: .20	Digitalis Leaves, bales.....	.07	: .08
			Civet, Alysia horus.....	2.75	: 3.75	Dill Seed, bags.....	.03	: .08 1/2



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Dogwood Bark, Jamaica bags....lb	.09	: .10	Grindelia Robusta Herb, bales....lb	.08	: .09	LADY SLIPPER ROOT, bags....lb	.50	: .55
American, bales.....lb	.07	: .08	Guaiac Gum, 80 lb cases.....lb	.30	: .34	Larkspur Seed, bags.....lb	1.05	: 1.10
Doggrass Root, USP, cut bags....lb	.10	: .11	Guarana, tins, cases.....lb	.60	: .65	Laurel Leaves, bales.....lb	.04	: .05
Dragons Blood, mass cases.....lb	.60	: .65	GUM, see Arabic Gum, etc.			Lavender Flowers, ordinary.....lb	.22	: .26
Reeds, boxes.....lb	.92	: .95	HELLEBORE ROOT,			Selected.....lb	.30	: .40
ECHINACEA ROOT, bags.....lb	.28	: .30	Black, bbls.....lb	.08	: .10	For 100.....lb	2.70	: 3.00
Elicampagne Root, bags.....lb	.08	: .09	Powdered.....lb	.15	: .17	Lemon Peel, bags.....lb	.08	: .09
Elder Flowers, bags.....lb	.11	: .15	White, Powd., 250 lb bbls....lb	.12	: .13	Licorice Root, Russian whole....lb	.07 1/4	: .08
Kiemi Gum, 89 lb cases.....lb	.10	: .11	Helonias Root, (unclean false) bags.....lb	.88	: .88	Spanish, natural bales.....lb	.09	: .09 1/4
Elm Bark, select 5 lb bundles cases lb	.25	: .27	Hemp Seed, Manchurian bags....lb	.03 1/4	: .04	Powdered, bbls.....lb	.09	: .09 1/4
Grinding, bags.....lb	.14	: .15	Chilian, bags.....lb	.03 1/4	: .04	Selected, 2 & 5 lb bundles..lb	.14	: .17
Powdered, bbls.....lb	.24	: .25	Henbane Leaves, bales, USP....lb	.31	: .34	Cuttings, 125 lb bags.....lb	.07	: .07 1/4
ERGOT, 150-200 lb bags.....lb	.31	: .32	No assay.....lb	.28	: .30	Greek, 150 lb bales.....lb	.03	: .03 1/4
Eucalyptus Leaves, bales.....lb	.05	: .06	Henna Leaves, bales.....lb	.10	: .11	Life Everlasting Herbs, bales....lb	.05	: .06
Euphorbia Pithifera Herb, bags..lb	.11	: .13	Powdered.....lb	.12	: .13	Lime Juice, clarified bbls.....gal	.60	: .65
Euphorbium Gum, cases.....lb	.17	: .20	Honey, Calif., 120 lb cases....lb	.12	: .13	Linden Flowers, with leaves, bales lb	.11	: .12
Powdered, boxes.....lb	.25	: .28	Hops, N. Y. prime bales.....lb	.28	: .30	Without Leaves, bales.....lb	.18	: .19
Fennel Seed, French, bags.....lb	.10 1/4	: .11	Pacific Coast prime bales....lb	.25	: .27	Liverwort Leaves, bales.....lb	.19	: .20
German, bags.....lb	.10 1/4	: .18	Horhound Herb, bales.....lb	.09	: .10	Lobelia Herb, bales.....lb	.35	: .37
Indian, bags.....lb	.08 1/4	: .09	Horsetail Rush, bags.....lb	...	: .15	Lobelia Seed, bags.....lb	.62	: .65
Flax Seed, whole 180 lb bbls....ca	13.00	: 13.50	India Gum, see Karaya			Lovage Root, imported, bags....lb	.20	: .22
Ground, 180 lb bbls.....lb	.07 1/4	: .08	INSECT FLOWERS, open whole			Lupulin, boxes.....lb	1.15	: 1.20
Foenugreek Seed, 200 lb bags....lb	.05	: .06	Closed whole, bales.....lb	.50	: .52	Domestic.....lb	1.15	: 1.20
Fish Berries, 100-125 lb bags....lb	.02 1/4	: .03	Closed whole, bales.....lb	.48	: .50	Lycopodium, 88 lb cs.....lb	.29	: .33
Fringe Tree Bark, bags.....lb	.19	: .20	Powdered, pure 200 lb bbls....lb	.63	: .65	MACE, Siam, No. 1 cases.....lb	.63	: .64
GALANGAL ROOT, bags.....lb	.07 1/4	: .08	Flowers and stems, 50 p. c. 200 lb bbls.....lb	.38	: .40	Banda, No. 1 cases.....lb	.65	: .67
Galbanum Gum, cases.....lb	.80	: .95	Ipecac Root, Cartagena, bags....lb	1.85	: 1.95	Batavia, No. 2 cases.....lb	.60	: .61
Gambler Gum, bags.....lb	.11	: .11 1/4	Powdered, 220 lb bbls. boxes lb	2.10	: 2.20	West Indian, cases.....lb	.58	: .60
Gamboge Gum, 160 lb cases.....lb	.78	: .80	Rio Whole, bags.....lb	1.85	: 1.95	Malva Flowers, blue bales.....lb	.38	: .40
Powdered, cases.....lb	.87	: .90	Powdered, 200 lb bbls. bxs. lb	2.10	: 2.20	Black, bales.....lb	.55	: .60
Gelsemium Root, bags.....lb	.11	: .11 1/4	Isinglass, American, 130 lb cs..lb	.75	: .80	Manna, large flake cases.....lb	1.00	: 1.10
Gentian Root, bags.....lb	.09	: .10	Russian (Beluga) bxs. etns....lb	4.00	: 4.50	Small flake, cases.....lb	.52	: .55
Ginger, African, bags.....lb	.15 1/4	: .16	JABORANDI LEAVES, bales....lb	.10	: .10 1/4	Sorts, cases.....lb	...	: .30
Jamaica, grinding, bags bbls..lb	.29	: .33	Jalap Root, whole, 150 lb bags..lb	.30	: .33	Mandrake Root, bags.....lb	.18	: .19
Japan, bags.....lb	.16 1/4	: .17	Powdered, USP, 250 lb bbls....lb	.35	: .37	Mastic Gum, 120 lb cases.....lb	.50	: .53
Cochin, ABC & lemon, bags..lb	.19	: .20	Japan Wax, white bags.....lb	.23	: .24	Meseron Bark, bags.....lb	.11	: .12
Ginseng Root, cultivated, bags..lb	8.00	: 10.00	Job's Tears, white bags.....lb	.10	: .12	Mistoe Leaves, bales.....lb	.15	: .16
Northwestern Wild, bags.....lb	12.00	: 14.00	Juniper Berries, 125 lb bags....lb	.08	: .08 1/4	Marjoram Leaves, German bales..lb	.12	: .15
Southern Wild, bags.....lb	9.00	: 11.00	KAMALA, boxes.....lb	1.10	: 1.20	French, bales.....lb	.11	: .12
Golden Seal Root, bags.....lb	3.45	: 3.55	Karaya Gum, powdered, bbls....lb	.12	: .18	Millet Seed, dom. yellow bags..lb	.03	: .04
Powdered, boxes.....lb	3.75	: 3.85	Kava Kava Root, bags.....lb	.13 1/4	: .14	Montan Wax, crude bags.....lb	.05 1/4	: .06
Grains of Paradise, bags.....lb	.10 1/4	: .11	Kino Gum, black cases.....lb	.50	: .55	Bleached.....lb	...	: .08 1/4
			Kola Nuts, 150 lb bags.....lb	.04 1/4	: .05	Moss, Iceland bales.....lb	.10 1/4	: .11
			Koussou Flowers, bags.....lb	...	: 3.00	Irish, bleached, bales.....lb	.09	: .09 1/4
						Selected, bales.....lb	1.00	: 1.10
						Mullein Flowers, tins.....lb	1.00	: 1.10

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Musk, pods, Cabardine, tins.....	14.00	: 17.00	Patchouli Leaves, bales.....	.16	: .18	Rosemary Flowers, cases bales.....	.25	: .28
Tonquin.....	22.00	: 25.00	Pennyroyal Herb, bales.....	.08	: .12	Rose Petals, pale.....	.22	: .25
Grain Cab.....	25.00	: 28.00	Pepper, black Sing. bags.....	.11	: .12	Red.....	.65	: .70
Tonquin.....	35.00	: 38.00	White, bags.....	.15	: .16	Rue Herb, bales.....	.18	: .22
Synthetic, see Chemicals.....			Peppers, red Mombasa, bags.....	.08	: .09	SABADILLA SEED, bags.....	.13	: .14
Musk Root, Russian bags.....		4.25	Cherries, bags.....	.12	: .14	Powder, bbls.....	.15	: .18
Mustard Seed, Bari brown bags.....	.11	: .12	Bombay, bags.....	.10	: .11	Saffron Flowers, Amer. bales.....	.82	: .84
Bombay, brown.....	.10	: .11	Japan, bags.....	.22	: .24	Valencia, 1 lb cans.....	42.00	: 43.00
California, brown.....	.11	: .11 1/2	Peppermint Leaves, imp. bales.....	.38		Sage, Dalmatian bales.....	.05	: .08 1/2
Yellow.....	.11	: .11 1/2	Cuts, bales.....	.22	: .24	Greek, bales.....	.04	: .04 1/2
Chinese yellow.....	.04	: .04 1/2	Domestic leaf.....	.32	: .34	Spanish, bales.....	.03	: .03 1/2
English, yellow.....	.08	: .09 1/2	Peru Balsam, see Balsams.....			Sandalwood, chips bags.....	.30	
Dutch, yellow.....	.07 1/2	: .08	Pickel Leaves, bags.....	.40	: .45	Ground, bags.....	.35	
Danish, yellow.....	.08 1/2	: .09	Pimento, select bags.....	.05 1/2	: .06	Sandarc Gum, 300 lb bbls.....	.24	: .25
Myrrh Gum, select 200 lb cs.....	.30	: .33	Pink Root, true bags.....	.95	: 1.05	Sarsaparilla Root Honduras, bales.....	.60	: .62
Sorts, cases.....	.25	: .27	Pitch, Burgundy, see Burgundy Pitch.....			Mexican, bales.....	.20	: .23
NUTGALLS, Chinese, bags.....	.17	: .18	Pleurisy Root, bags.....	.22		Sassafras Bark, ordinary bales.....	.14	: .16
Aleppy, bags.....	.14	: .15	Plantain Leaves, bales.....	.15		Select, bales.....	.31	: .34
Nutmegs, 110s cases.....	.40	: .41	Poke Berries, bags.....	.15		Savory Leaves, bales.....	.06 1/2	: .07 1/2
75s, 80s cases.....	.43	: .45	Poke Root, bags.....	.09	: .10	Saw Palmetto Berries, bags.....	.09	: .10
Nux Vomica Buttons, bags.....	.04 1/2	: .05 1/2	Pomegranate Bark, of root bags.....	.30		Scammony Resin, boxes.....	1.40	: 1.60
Powdered, 200 lb bbls.....	.08 1/2	: .09	Of Fruit, bags.....	.30		Scammony Root, bags.....	.06 1/2	: .07
OAK BARK, red bags.....	.05	: .06	Of Tree.....	.30		Senega Root, bags.....	.64	: .66
White, bags.....	.06	: .07	Poppy Flowers, red bags.....	.65	: .70	SENNA, Alex. 150 lb cases.....	.22	: .24
Olibanum Gum, sift 250 lb cases.....	.08 1/2	: .09	Poppy Seed, Dutch, bags.....	.07	: .07 1/2	Half Leaf, 350 lb bales.....	.14	: .16
Tears, 250 lb cases.....	.11	: .12	German, bags.....	.06	: .08	Siftings, 400 lb bales.....	.10	: .11
No. 1, all white 250 lb cases.....	.22	: .23	Turkish, bags.....	.06	: .08	Powdered, 200 lb bbls.....	.12	: .14
Opium, gum, USP, cases.....	9.00	: 10.00	Blue Indian, bags.....	.08	: .08 1/2	Tinnevely, Job, 350 lb bbls.....	.11	: .14
Granular, cases.....	10.00	: 11.00	White Indian, bags.....	.07	: .07 1/2	Grinding, 350 lb bales.....	.05	: .06
Powdered, USP, cases.....	10.00	: 11.00	Prickly Ash Bark Southern, bags.....	.14	: .16	Powdered, 200 lb bbls.....	.08	: .09
Orange Flowers, cases.....	.50	: 1.00	Northern, bags.....	.40	: .45	Pods, 350 lb bales.....	.16	: .20
Orange Peel, bitter, bags.....	.07 1/2	: .07 3/4	Prickly Ash Berries, bags.....	.16	: .18	Serpentaria Root, bags.....	.83	: .93
Sweet, bags.....	.08 1/2	: .09 1/2	Prince's Pine, bales.....	.18	: .18	Sheila, D.C., bags.....	.74	: .75
ORRIS ROOT Florentine bold bags.....	.07	: .08	Pulsatilla Herb, bags.....	.14	: .16	V.S.O. bags.....	.74	: .75
Powdered, 200 lb bbls.....	.08 1/2	: .09	Pumpkin Seed, bags.....	.07 1/2	: .08	Diamond I, bags.....	.73	: .74
Verona, bags.....	.05	: .06	Queen of the Meadow Herb, bags.....	.90	: 1.00	Supernine, Orange, bags.....	.58	: .59
Powdered, 200 lb bbls.....	.07 1/2	: .09	Quince Seed, bags.....	.04	: .04 1/2	Pine, bags.....	.58	: .59
Fingers, cases.....	.55	: .60	RAPE SEED, South Amer. bags.....	.05 1/2	: .06	T.N., bags.....	.54	: .58
Onkerite Wax, brown hard bags.....	.22	: .24	Dutch, bags.....	.05 1/2	: .06	Garret, A. C.....	.53	: .54
Green, hard bags.....	.27	: .28	Japanese, small, bags.....	.56	: .60	Buttons, bags.....	.69	: .70
Refined, yellow bags.....	.17	: .22	Raspberries, dried boxes.....	.17	: .19	Bleached, ground, bbls.....	.56	: .57
PAPRIKA, bags.....	.26	: .28	Red Saunders.....	.10	: .11	Bone dry, bbls.....	.65	: .66
Parola Brava Root, bags.....	.12	: .13	Rhatany Root, bags.....	.30	: .32	Simaruba Bark, bales.....	.07	: .08
Parsley Seed, bags.....	.09	: .10	RHUBARB, Root, H. D. cases.....	.36	: .39	Sideritis Herb, cut bags.....	.15	: .18
			Powdered, 200 lb bbls.....	.04 1/2	: .05	Skullcap Leaves, Eastern, bales.....	.70	: .75
			Rosemary Leaves, bales.....	.04 1/2	: .05	Western, bales.....	.42	: .45
						Sloe Berries, bags.....	.03	: .04

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Snake Root, Canada natural bags..	.45	.50
Stripped, bags50	.65
SOAP BARK, whole, 150-200 lb		
bales .....	.08	.09
Cut, 125-175 lb bags .....	.09 1/4	.10
Crushed, 200 lb bbls .....	.10	.12
Powdered, 200 lb bbls .....	.12	.13
Spearmint Leaves, American bales..	.15	.24
Spermaceti, blocks cakes cases...	.38	.42
Spikenard Root, bags .....	.27	.38
Spruce Gum, boxes	1.00	1.50
Squaw Vine, bales .....	.18	.20
Squills, white .....	.05	.05 1/2
Powdered, bulk .....	.35	.40
Stavacore Seed, bags .....	.42	.45
Stillingia Root, bags .....	.11 1/4	.12
Stoebe Root, bags .....	.09	.10
Storax, liquid artif. ....	.70	.75
Gen. USP .....	.90	1.00
St. Ignatius Beans, bags .....	.12	.13
St. John's Bread, bags .....	.03	.05
Stramonium Leaves, bales .....	.07	.08
Stramonium Seed, bags .....	.12	.13
Strophanthus Seed, Flapidae .....	.35	.40
Kombe, bags .....	.30	.35
Sunflower Seed, domestic bags...	.06 1/4	.07
South American, bags .....	.05	.05 1/4
TAGALDER BARK, bags .....	.05	.06
Tamarinds, bbls. ....	.05 1/4	.06
Kegs	per keg	3.50
Tansy Herb, bales .....	.18	.19
Tar, Barbados, 50 gal. bbls.	1.40	1.50
Thus Gum, 280 lb bbls .....	.07	.08
Thyme, Spanish bales .....	.06	.06 1/4
French, bales .....	.07 1/4	.08
Tilia, See Linden		
Tonga Bark, bags .....	.27	.29
Tonka Beans, Angostura, cases...	2.15	2.25
Para, cases .....	.75	.80
Surinam, cases .....	.60	.70

Tragacanth Gum, No. 1, ribbon	1.20	1.25
160 lb cs. ....	.90	1.20
No. 2 to No. 6, cases .....	.85	.90
Powdered, 50 lb boxes .....	.70	.85
Turkish, cases .....	.13	.13 1/2
Turmeric Root, Madras bags .....	.10 1/4	.11
Alleppy, bags .....	.12	.13
Powdered .....	.08 1/2	.09
China, bags .....	.15	.16
Turpentine, Venice, true 80 lb cs. ....	.1	.1
Artificial, 80 lb cases		
Spirits, see Naval Stores		
UNICORN ROOT, false, see Heloni		
True, see Aletris		
Uva Ursi Leaves, bales .....	.05	.06
VALERIAN ROOT, Belgian bags .....	.10	.11
Vanilla Beans Mex. whole cases	13.00	14.00
Cuts, cases	11.00	11.50
Bourbon, cases	12.00	13.00
South American, cases		
Tahiti, yellow label cases		
Green Label, cases .....	.70	.75
VIOLET FLOWERS, bags	1.05	1.15
WAHOO BARK, of root bags .....	.40	.42
Of Tree, bags .....	.07 1/4	.08
White Pine Bark, rosed, bags .....	.06	.07
White Poplar Bark, bags		
Wild Cherry Bark, thin green	.14	.15
Rosed, bales .....	.09	.10
Thick Rosed, bales .....	.10	.12
Thin Natural, bales .....	.06	.07
Thick Natural, bales .....		.06
Willow, bark bags .....		.12
White, bags .....	.07	.08
Witch Hazel Bark, bags .....	.08 1/4	.09
Witch Hazel Leaves, bales .....	.08 1/4	.09
Worm Seed, American bags	5.00	5.25
Lerant bags .....		.10
Wormwood Herb, imported bales .....	.04	.04 1/4
Yacca Gum, red .....	.05 1/4	.06 1/4
Ground .....	.12	.14
YELLOW DOCK ROOT, bags .....	.18	.17
Yellow Parilla Root, bags09 1/4	.10
Yerba Santa, bags10	.12
Zedoary Root, bags		

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Almond Bitter USP 5 lb bot.	8.25	8.75
Bitter fr PA 5 lb bot.	8.50	3.75
Sweet, 56 lb cans42 1/2	.45
Peach Kernel, 55 lb tins .....	.24	.25
Apricot, see Peach Kernel		
Amber, crude 25 lb tins .....	.70	.75
Rectified, 25 lb tins .....	.90	.95
Angelica Root, 1 lb bot.	38.00	39.00
Seed, 1 lb bot.	38.00	38.00
ANISE, Tech., 66 lb case .....	.50	.52
USP, 50 lb tins .....	.55	.57
Bay, 25 lb tins	2.25	2.40
Bergamot, 25 lb coppers	3.90	4.10
Artificial, 25 lb cans	2.25	2.40
Birch Tar, rect. 5 lb bot.	1.00	1.10
Crude, 50 lb tins .....	.30	.50
Bols de Rose, 25 lb tins	4.75	5.00
Cajuput, native, 50 lb tins .....	.77 1/2	.80
Calamus, 5 lb bot.	4.20	4.65
Camphor, heavy, 1000 lb drums .....	.14 1/4	.15 1/4
Japanese, white, 72 lb cases .....	.13	.14
White, 1000 lb drums .....	.12 1/4	.14
Cananga, native 25 lb tins	2.00	2.25
Rectified, 25 lb tins	2.75	3.00
Caraway, USP	7.50	7.75
Cardamom, USP, 1 lb bot.	27.00	29.00
Carrot, 5 lb bot.	17.00	18.00
CASSIA, 80-85 p.c. 400 lb drums	1.60	1.70
Redistilled, USP, 50 lb cans	2.15	2.25
Cedar Leaf, 50 lb tins .....	.95	1.05
Cedar Wood, light 1000 lb drums .....	.38	.40
Celery, 1 lb bot.	10.00	11.00
Chaulmoogra, 80 lb cases .....	.85	.90
Cinnamon, Ceylon, 1 lb bot.	11.00	12.50
Leaf, 5 lb bot.	1.50	1.75
CITRONELLA, Ceylon,		
1000 lb drums .....	.83	.93
50 lb tins .....	.86	.96
Java, 400 lb drums	1.15	1.20
50 lb tins	1.20	1.25
Cloves, USP, 50 lb case	1.85	1.95
6 lb bot.	1.95	2.05

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Copaiba, USP, 50 lb tins.....	40	: 42
Coriander, USP, 1 lb bot.....	12.00	: 12.50
Croton, USP, 25 lb tins.....	1.00	: 1.10
Cubeb, USP, 5 lb bot.....	5.00	: 5.25
Cumidin, 1 lb bot.....	12.50	: 13.50
Dill, 1 lb bot.....	4.50	: 5.00
Erigeron, 20 lb tins.....	1.35	: 1.45
EUCALYPTOL, Austl. USP		
50 lb cs.....	.58	: .62
500 lb drums.....	..	: .55
Fennel, USP, 25 lb tins.....	.90	: 1.10
Geranium, Algerian, 25 lb tins..	7.75	: 8.50
Bourbon, 25 lb tins.....	6.75	: 8.50
Turkish, 25 lb tins.....	4.25	: 4.50
Ginger, 1 lb bot.....	8.75	: 10.00
Gingergrass, 25 lb tins.....	2.75	: 3.00
Hemlock, 50 lb cans.....	.95	: 1.00
Juniper Berries, USP, 25 lb tins..	1.25	: 1.30
Wood, 50 lb tins.....	.60	: .70
Lavender, USP, 25 lb tins.....	4.50	: 6.00
Spike, Spanish, 50 lb cans.....	.80	: 1.00
LEMONGRASS, Ital. USP, 25 lb tins..	.82½	: .95
American, USP, 25 lb tins.....	.75	: .80
Lemongrass, native, 50 lb cans...	.75	: .90
Limes, express, 25 lb tins.....	2.10	: 2.20
Distilled, 25 lb tins.....	1.05	: 1.15
Linaloe, Mex. 80 lb cases.....	..	: ..
Mace, distilled, 50 lb tins.....	1.25	: 1.35
MIRBANE, ref., see Ar. Chemicals		
Mustard, USP, 1 lb bot.....	..	: 14.00
Artif., USP, 1 lb bot.....	3.25	: 3.50
Neroli, Bigarade, ½ & 1 lb bot....	40.00	: 60.00
Petal, 1 lb bot.....	70.00	: 120.00
Artificial, 1 lb bot.....	10.00	: 25.00
Nutmeg, USP, 25 lb tins.....	1.25	: 1.35
Orange, bitter, 25 lb tins.....	2.65	: 2.75
Sweet, W. Ind., 25 lb tins.....	2.60	: 2.75
Italian, 25 lb cop.....	3.35	: 3.75
American, 25 lb tins.....	3.00	: 3.10
Distilled, 50 lb tins.....	1.50	: 1.75
Spanish, 25 lb tins.....	2.65	: 3.00
Origano, 50 lb cans tech.....	.30	: .35
Parsley, 1 lb bot.....	3.50	: 4.00
Patchouli, 5 lb bot.....	5.50	: 6.00
Pennyroyal, dom. 25 lb tins.....	2.00	: 2.25
Imported, 25 lb tins.....	1.80	: 1.95
PEPPERMINT, nat. 60 lb cases..	4.00	: 4.30
Redist., USP, 60 lb cases.....	4.40	: 4.60
Petit Grain, S. Am. 25 lb tins..	1.90	: 2.00
French, 1 lb bot.....	7.00	: 8.00
Italian, 25 lb tins.....	2.25	: 2.35

Pimento, 25 lb tins.....	2.00	: 2.10
Pinus Sylvestris, 25 lb tins.....	..	: 1.40
Pumilio, USP, 25 lb tins.....	..	: 2.25
Rose, Fr., 8, 16 & 32 oz pkgs..	..	: 9.00
Bulg., 8, 16 & 32 oz pkgs..	8.00	: 9.00
Artificial, 1 lb bot.....	2.00	: 3.00
Rosemary, USP, 27½ lb tins.....	.40	: .42
1000 lb drums.....	..	: .37½
Tech., 27½ lb tins.....	.35	: .40
Rue, 1 lb bot.....	..	: 4.25
Sandalwood, E. Ind. USP, 76 lb cases	6.25	: 6.50
W. Indian, (Amyris) 25 lb tins..	2.75	: 2.90
Sassafras, USP, 50 lb cans.....	1.40	: 1.60
Artificial, 1000 lb drs., 60 lb cans	.35	: .37
Savin, 5 lb tins.....	2.50	: 2.75
Spearmint, USP, 60 lb cases.....	2.70	: 2.90
Spruce, 50 lb tins.....	.95	: 1.00
Tansy Amer., 20 lb tins.....	3.50	: 3.75
Tar, 50 gal. bbls.....	.25	: .26
Refined, USP 25 lb tins.....	..	: ..
Thyme, red, USP, 25 lb tins.....	.90	: 1.00
White, USP, 25 lb tins.....	1.10	: 1.15
Tech., 110 lb drums.....	.30	: .35
Vetiver, Bourbon, 1 lb bot.....	12.00	: 15.00
Java, 1 lb bot.....	30.00	: 32.00
Indian, 1 lb bot.....	32.00	: 36.00
Wine, heavy 1 lb bot.....	..	: 1.50

WINTERGREEN

Sweet beh., 25 lb tins.....	2.50	: 3.00
Southern, 25 lb tins.....	1.85	: 2.00
Gaultheria, true 25 lb tins.....	7.00	: 8.00
Southern, 25 lb tins.....	4.00	: 4.25
Synthetic, USP, 50 lb cases.....	..	: .47
Wormwood Balt., USP, 25 lb tins..	5.50	: 5.75
Wormwood dom., 25 lb tins.....	3.50	: 4.00
Ylang Ylang Bourbon 10 lb tins	..	: ..
No. 1.....	6.00	: 8.00
No. 2.....	5.00	: 6.00
Manila, 1 lb bot.....	28.00	: 40.00
Artificial, 1 lb bot.....	10.00	: 12.00

OLEORESINS

Aspidium, USP, 1 lb bot.....	2.75	: 3.00
Capicum, USP, 5 lb bot.....	2.25	: 2.50
Ginger, 5 lb bot.....	3.50	: 3.75
Cubeb, USP, 1 lb bot.....	4.50	: 4.75
Malefere. See Aspidium	..	: ..
Orris 1 lb bot.....	15.00	: 18.00
Pepper, black, USP, 1 lb bot.....	3.50	: 4.00
Vanilla, 1 lb bot.....	22.50	: 25.00

Aromatic Chemicals

NATURAL DERIVATIVES

Anethol, 2 lb bot.....	1.25	: 1.75
Borneol, 1 lb bot.....	..	: 3.50
CITRAL, 25 lb cans.....	2.75	: 3.00
Citronellal, 1 lb bot.....	2.00	: 2.25
EUCALYPTOL, USP, 25 lb cans..	.77½	: .80
Eugenol, USP, 25 lb cans.....	3.25	: 3.50
Geraniol, Domestic, 50 lb cans...	3.25	: 3.50
Imported, 5 lb bot.....	4.25	: 5.50
Extra.....	..	: ..
Iso-Eugenol, 1 lb bot.....	4.50	: 5.00
Imported.....	5.50	: 6.50
Linalool, 5 lb bot.....	4.00	: 5.00
MENTHOL, 60 lb cases.....	..	: 12.00
Less cases, 5 lb cans.....	..	: 12.50
Rhodinal, 1 lb bot.....	15.00	: 20.00
SAFROL, 60 lb cans.....	.47	: .49
Thymol, USP, 25 lb tins.....	3.05	: 3.15

SYNTHETIC AROMATICS

Acetaldehyde, 50% sol. pure, 5 lb bot..	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.25	: 4.50
Aldehyde C-8 (Octyl) 1 lb bot..	45.00	: 60.00
Aldehyde, C-9 (Nonyl), 1 lb bot..	70.00	: 75.00
Aldehyde, C-10 (Decyl), 1 lb bot..	50.00	: 58.00
Aldehyde, C-12 (Dodecyl), 1 lb bot..	..	: ..
Aldehyde, C-14, 1 lb bot.....	27.50	: 32.50
Aldehyde, C-16, 1 lb bot.....	22.50	: 25.00
Aldehyde, C-18, 1 lb bot.....	70.00	: 80.00
Aniline, see Aniline Aldehyde	..	: ..
Amyl Acetate, pure 5 gal. cans.gal	4.00	: 4.25
Amyl Butyrate, 1 lb bot.....	1.75	: 2.00
Amyl Cinnamate, 1 lb bot.....	4.00	: 4.50
Amyl Formate, 1 lb bot.....	1.50	: 1.75
Amyl Phenyl Acetate, 1 lb bot..	4.50	: 5.00
ANYL SALICYLATE, dom. 100 lb chys.	1.45	: 1.50
Imported.....	2.25	: 2.50
Amyl Valerate, 5 lb bot.....	4.75	: 5.00
Aniline Aldehyde, 1 lb bot.....	3.75	: 4.25
BENZALDEHYDE, USP, 40 lb chys..	1.50	: 1.60
FFC, 40 lb chys.....	1.60	: 1.75
Benzole Ether, See Ethyl Benzole	..	: ..
Benzophenone, 1 lb bot.....	6.75	: 7.00
Benzyl Acetate, 100 lb chys.....	1.55	: 1.75

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Benzyl Alcohol, 5 lb bot.....D	1.45	: 1.55	Iso-Butyl Benzoate, 5 lb bot.....D	4.75	: 5.00	Skatol, 1 oz. bot.....oz	8.00	: 9.00
BENZYL BENZOATE, 5 lb bot.....D	1.60	: 1.75	Iso-Salrol, 1 lb bot. imported.....D	5.25	: 5.50	Terpinyl Acetate, 25 lb cans....D	1.65	: 1.85
Medicinal FCC.....D	1.75	: 2.00	Domestic, 5 lb bot.....D	4.00	: 4.25	TERPINEOL, CP, 1000 lb drums..D	.48	: .50
Benzyl Butyrate, C.P., 1 lb bot.....D	5.50	: 6.00	Linyl Acetate, 1 lb bot. Dom.....D	8.00	: 9.50	Cans, 50 lb.....D	.52	: .54
Benzyl Cinnamate, 1 lb bot.....D	10.00	: 10.50	Imp., 1 lb bot.....D	8.50	: 10.00	Imported, 25 lb cans.....D	1.10	: 1.20
Benzyl Formate, 1 lb bot.....D	3.00	: 3.25	Linyl Benzoate, 1 lb bot.....D	13.00	: 14.00	VANILLIN, USP, 500 oz. cans....oz	..	: .49½
Benzyl Propionate, 1 lb bot.....D	5.00	: 5.25	Linyl Formate, 5 lb bot.....D	10.50	: 12.00	Cans, 16 oz., 80 oz.....oz	.50	: .51
Bornyl Acetate, 1 lb bot.....D	3.00	: 3.50	Methyl Acetophenone.....D	4.75	: 5.00	Second Hands.....oz	.42½	: .45
Bromstyrol, 25 lb kegs.....D	3.00	: 4.00	METHYL ANTHRANILATE dom.,			Valerianic Ether, See Ethyl Valerate		
Butyl Anthranilate, 1 lb bot.dom.D	..	: 16.00	1 lb bot.....D	2.75	: 3.25	Yara Yara, 1 lb cans.....D	1.75	: 2.00
Butyric Ether, See Ethyl Butyrate			Imported.....D	4.50	: 5.00			
Cinnamic Acid, 5 lb cans.....D	3.00	: 3.25	Methyl Benzoate, 5 lb bot. import.D	2.00	: 2.25			
Cinnamic Alcohol, liquid 1 lb bot.D	10.00	: 14.00	Domestic, 5 lb bot.....D	1.75	: 2.00	PERFUMERS' SUNDRIES		
Crystallizable.....D	12.00	: 16.00	Methyl Cinnamate, 1 lb bot.....D	3.50	: 3.75	Almond Meal, 25 lb cans.....D	.28	: .30
Cinnamic Alcohol, liquid 1 lb bot.D	10.00	: 14.00	Methyl Heptenone, 1 lb bot.....D	8.00	: 8.25	Ambergris, black, bxs.....oz	8.00	: 10.00
CITRONELLOL, 1 lb bot.....D	8.00	: 12.00	Methyl Paracresol, 1 lb bot.....D	8.00	: 9.00	Ambergris, gray, bxs.....oz	..	: 26.00
Citronellyl Acetate, 1 lb bot.....D	13.00	: 14.00	Methyl Phenylacetate, 5 lb bot dom.D	3.75	: 4.00	Balsam Copaiba, Para, 80 lb cases..D	.26	: .28
COUMARIN, 25 lb cans.....D	3.50	: 3.75	METHYL SALICYLATE, USP 500 lb			South American, 80 lb cases..D	.33	: .34
DIETHYL PHTHALATE, 25 lb cans..D	.50	: .55	drums.....D	..	: .45	Balsam Peru, 120 lb cases.....D	1.85	: 1.95
1000 lb drs.....D	.40	: .45	50 lb cases.....D	..	: .47	Balsam Tolu, 90 lb cases.....D	1.50	: 1.60
Diphenyl ether, 25 lb tins.....D	.85	: .90	Second Hands.....D	.45	: .46	Benzoin Gum, Siam, bxs.....D	1.30	: 1.35
Ethyl Acetate, pure, 5 lb bot.....D	.45	: .50	Mirbane, rect., 1000 lb drums.....D	12½	: 14	Castoreum, 1 lb bot.....D	4.00	: 4.50
Ethyl Benzoate, 5 lb bot.....D	1.85	: 2.00	Musk Ambrette, 1 lb cans.....D	13.50	: 15.00	Chalk, precip. light, 175 lb bbls..D	.04½	: .05
Ethyl Butyrate, 5 lb bot.....D	1.75	: 2.00	Musk Ketone, 1 lb cans.....D	..	: ..	Cherry Laurel Water, 5 gal cans.gal	1.15	: 1.25
Ethyl Caproate, 1 lb bot.....D	3.25	: 3.50	Musk Xylene, 5 lb cans.....D	4.40	: 4.50	Civet Abyssin, horns.....oz	2.75	: 3.75
Ethyl Cinnamate, 1 lb bot.....D	3.50	: 3.75	Nerolin, 1 lb cans.....D	1.65	: 2.00	Labdanum, 5 lb bot.....D	..	: 8.00
Ethyl Formate, 5 lb bot.....D	2.00	: 2.10	Oenanthe Ether, 1 lb bot.....D	1.50	: 2.00	Lanolin hydrous, 350 lb bbls..D	.21	: .22
Ethyl-methyl Paracresol, 1 lb bot.D	3.25	: 3.50	Phenylacetaldehyde, Dom.,			Anhydrous, 350 lb bbls.....D	.23	: .24
Ethyl Phenylacetate, 5 lb bot.....D	3.75	: 4.00	1 lb bot.....D	8.00	: 10.00	Musk pods, Cabardine, tins.....oz	16.00	: 17.00
Ethyl Propionate, 1 lb bot.....D	2.25	: 2.50	Imported.....D	8.00	: 9.00	Tonquin, tins.....oz	22.00	: 25.00
Ethyl Valerate, 5 lb bot.....D	4.50	: 4.75	80-85 p.e.....D	15.00	: 18.00	Grains, Cabardine, tins.....oz	25.00	: 26.00
Ethyl Salicylate, 5 lb bot.....D	3.25	: 3.50	Phenylacetic Acid, 1 lb bot.....D	3.00	: 3.25	Tonquin, tins.....oz	35.00	: 38.00
Formic Ether, See Ethyl Formate			Phenyl Diacetate, 1 oz. bot.....oz	3.25	: 3.50	Synthetic, See Aromatic Chemicals		
Geranyl Acetate, 1 lb bot.....D	5.00	: 5.50	PHENYLETHYLALCOHOL dom.,			Orris Rt. Flor., powd. bbls.....D	.09	: .10
Geranyl Butyrate, 1 lb bot.....D	13.00	: 13.50	1 lb bot.....D	8.00	: 10.00	Verona, bbls.....D	.05	: .06
Geranyl Formate, 1 lb bot.....D	12.00	: 12.50	Imported.....D	8.00	: 9.00	Petrolatum, snow white, 350 lb bbls.D	.12½	: .13
Heliotropin, dom., 10 lb cans.....D	1.85	: 2.00	Phenylethyl Butyrate, 1 lb bot.....D	26.00	: 28.00	Light Amber, 350 lb bbls.....D	.04½	: .05
Imported.....D	2.50	: 2.75	Phenylethyl Formate, 1 lb bot.....D	19.00	: 21.00	Rice Starch, 140 lb bgs.....D	.09	: .10
Hydroxycitronellal, 1 lb bot.....D	16.00	: 18.00	Phenylethyl Propionate, 1 lb bot..D	20.00	: 24.00	Rose Water, 6 2-3 gal cys.....gal	1.00	: 1.25
Indol, CP, 1 oz. bot.....oz	6.00	: 6.50	Phenylethyl Valerate, 1 lb bot.....D	25.00	: 29.00	Sandalwood chips, powd., bags.....D	.80	: .85
Ionone, 1 lb bot.....D	5.00	: 9.00	Phenylpropylalcohol, 1 lb bot.....D	15.00	: 16.00	Saponin, 5 lb tins.....D	1.25	: 1.50
Alpha.....D	10.00	: 12.00				Talc Italian, 220 lb bgs.....ton	40.00	: 80.00
Beta.....D	9.00	: 11.00				Talc French, 220 lb bags.....ton	22.00	: 45.00
Methyl.....D	13.50	: 15.00				Talc, domestic ref., 100 lb bags. ton	16.00	: 18.00

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ADEPS LANAE—20 bbls., B. & W. Co., Hamburg
ALBUMEN—Serum, 7 cs., H. A. Metz, Inc., Hamburg
ALCOHOL—Fluobutyl, 1 ck., Roessler & Hasslacher Chem. Co., Hamburg
ALOES—60 cs., R. Desvernine, Curacao; 1,000 cs., Suzarte & Whitney, Curacao; 133 cs., De Sola Bros. & Pardo, Curacao
ALUMINUM—Hydrate, 450 bgs., R. W. Greeff & Co., Rotterdam
AMMONIUM—Carbonate, 15 cks., J. Turner & Co., Liverpool
ARGOLS—101 bgs., C. Pfizer & Co., Rotterdam
ARSENIC—50 cks., Order, Hamburg; 172 bbls., Amer. Metal Co., Tampico
BALSAM—5 cs., Ultramarine Corp., Central Amer. Ports
BARIUM—Carbonate, 500 bgs., E. Suter & Co., Hamburg; Chloride, 113 cks., T. Goldschmidt Corp., Rotterdam; 52 cks., Order, Hamburg; 102 cks., Brown Bros. & Co., Hamburg; 60 cks., Globe Shpg. Co., Bremen; 66 cks., E. Suter & Co., Rotterdam; Peroxide, 76 bbls., W. A. Brown & Co., Hamburg; Sulfate, 100 bgs., W. Benkert & Co., Rotterdam
BAKES—60 bgs., R. Hillier's Sons Co., Hamburg; 567 bgs., J. C. Anderson Co., Durban; 13 bls., Cohen & Co., Nassau
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CALOMEL—4 cs., Order, London
CAMPHOR—5 bbls., Order, Hamburg
CASEIN—2,083 bgs., Kalbfleisch Corp., Buenos Aires; 102 bgs., Order, Liverpool
CHROME OXIDE—8 cs., Reichard Coulston, Inc., Rotterdam
CINCHONIDINE—20 cs., R. W. Greeff & Co., Rotterdam
COAL TAR—Distillate, 13 drs., Monsanto Chem. Wks., Liverpool; 133 drs., W. Foster, Liverpool; 49 drs., Order, Liverpool; 58 drs., Order, Glasgow
COLORS—8 cks., Garfield Aniline Wks., Rotterdam; 1 pkt., Grasselli Chem. Co., Rotterdam; 3 cks., Geigy Co., Antwerp; 20 cks., American Exchange National Bank, Antwerp; 5 cks., Irving Bank, Genoa; 13 cs., Order, Genoa; 375 cs., Banque Imperiale Ottomane, Constantinople; 1 ck., Amer. Aniline Products Co., Hamburg; 25 cks., C. Hellmuth, Inc., Hamburg; 4 cs., 4 cks., H. A. Metz & Co., Hamburg; 5 cks., 1 cse., Kuttroff Pickhardt & Co., Hamburg; 9 cks., Franklin Imp. & Exp. Co., Hamburg; 2 cs., Order, London; 6 cans, B. F. Drakenfeld, Liverpool; 17 pgs., 18 cs., Ciba Co., Havre; 1 cse., Sirmac Color Co., Havre; Bronze, 13 cs., J. E. Mandlik, Hamburg; 5 cs., Hensel Bruckmann & Lorbacher, Hamburg; Coal Tar, 15 drs., Amer. Cellulose & Chem. Mfg. Co., London; Earth, 23 cks., Reichard Coulston, Inc., Hamburg; 10 cks., E. M. & F. Waldo, Hamburg
COPPER—Oxide, 25 drs., Order, Hamburg; 30 drs., Order, Liverpool; 24 cks., Roessler

& Hasslacher Chem. Co., Rotterdam; Sulfate, 80 drs., Order, Hamburg
DECOLORIZING MIXTURE—62 bgs., L. A. Salomon & Bro., Rotterdam
DEXTRINE—50 bls., Brown Bros. & Co., Rotterdam; 150 bgs., Stein Hall & Co., Copenhagen
EARTH—Mineral, 77 cks., Order, Hamburg; Silicious, 40 cks., Ultramarine Wks., Rotterdam
EXTRACTS—Quebracho, 1,024 bgs., Nat. Bk. of Commerce, Buenos Aires; 5,559 bgs., Order, Buenos Aires
FLOWERS—4 bls., Peek & Velsor, Hamburg; 8 bls., Order, Liverpool; Horehound, 18 bls., Order, Marseilles
FULLER'S EARTH—250 bgs., C. B. Chrystal Co., London
GELATIN—45 bgs., 81 bbls., H. A. Sinclair, Rotterdam; 60 cs., P. Puttmann, Rotterdam; 73 cks., Globe Shpg. Co., Hamburg; 50 cs., Order, Barcelona
GLAUBERS SALT—276 cks., 750 bgs., E. Suter & Co., Hamburg
GUMS—Chicle, 167 bgs., Chicle Dev. Co., Vera Cruz; Copal, 102 bgs., Chem. Nat. Bk., Antwerp; Olibanum, 3 cs., Order, London; Perillo, 403 bls., W. Wrigley, Jr. & Co., Puerto Colombia
HERBS—5 bls., Peek & Velsor, Hamburg; 6 bls., 32 pgs., Order, Hamburg; 92 bgs., Peek & Velsor, Hamburg; 5 bls., Order, Liverpool; 3 bls., 4 bgs., Order, Bremen
HOPS—20 cs., J. Sonnenschein Hop Co., Hamburg
IRON—Peptonate, 1 cse., Reinschild Chem. Co., Hamburg
IRON OXIDE—279 bbls., A. E. Rittwagen, Malaga; 202 bbls., Reichard Coulston, Inc., Malaga; 10 bbls., E. M. & F. Waldo,

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JUICE—Lime, 25 cks., Order, Demarara

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LICORICE—Paste, 10 cs., J. Rico, Seville

LITHOPONE—60 bbls., Order, Hamburg; 4 cks., Reichard Coulston, Inc., Rotterdam

MAGNESIA—Citrate, 175 cs., Order, Genoa

MAGNESITE—215 bbls., Brown Bros. & Co., Rotterdam

MAGNESIUM—Chloride, 519 drs., Order, Hamburg; 344 bbls., Innis Speiden & Co., Hamburg; 183 drs., Brown Bros. & Co., Hamburg; 364 drs., Order, Hamburg; 180 drs., Brown Bros. & Co., Hamburg; 444 drs., Order, Hamburg

MANGANESE CHLORIDE—93 bbls., Roessler & Hasslacher Chem. Co., Hamburg

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MINERAL WHITE—480 bgs., Hamill & Gillespie, Liverpool

NAPHTHALENE—199 bgs., Lunham & Reeve, Rotterdam

OPIUM—18 cs., Kidder Peabody Accept. Corp., Constantinople

OSCHRE—Yellow, 50 bbls., Hummel & Robinson Co., Malaga; 50 bbls., Hummel & Robinson Co., Malaga

OILS—Coconut, 828 tons, 15 cwt., Philippine Refg. Corp., Cebu; **Cod Liver**, 25 bbls., McKesson & Robbins, Christiania; **Linseed**, 60 bbls., Order, Rotterdam; **Olive**, 500 cs., Briones & Co., Seville; 1,000 cs., H. J. Heinz & Co., Seville; 100 cs., 25 bbls., Order, Seville; 200 cs., East River Nat. Bk., Malaga; 250 cs., Banca Comm. Ital., Malaga; 220 cs., Nat. Shawmut Bk., Malaga; 210 cs., E. Penna, Genoa; 200 cs., A. Gash, Genoa; 2,990 cs., Order, Genoa; 250 cs., East River Nat. Bk., Malaga; 200 cs., F. H. Leggett & Co., Malaga; 375 cs., Order, Genoa; 540 cs., Order, Genoa; 250 cs., Oceano Shpg. Co., Leghorn; 1,330 cs., Order, Leghorn; 325 cs., R. C. Williams & Co., Marseilles; **Palm**, 233 cks., African & Eastern Trdg. Co., Liverpool; **Sesame**, 100 bbls., Welch Holme & Clark Co., Rotterdam; 400 bbls., Order, Copenhagen; **Sulfur**, 10 puns, Phila. Nat. Bk., Seville; 250 bbls., Order, Seville; 100 cks., Leghorn Trdg. Co., Leghorn; **Whale**, 15,621 bbls., Order, Montevideo; 11,400 bbls., Procter & Gamble Co., Montevideo

OILS, ESSENTIAL—134 cs., J. H. Faunce, Inc., Rotterdam; 6 cs., Polaks Frutal Wks., Rotterdam; 4 drs., Order, Malaga; 8 cs., Fritzsche Bros., Liverpool; 30 cks., Will & Baumer Co., Havre; 10 cks., Order, Havre; **Almond**, 18 cs., Order, Malaga; 23 cs., Order, Malaga; **Juniper**, 4 drs., Graham Hinkley & Co., Malaga; **Mustard**, 2 cs., Order, Rotterdam; **Orange**, 70 cs., Order, Valencia; **Origanum**, 6 drs., Goldman Sachs & Co., London; **Rosemary**, 2 drs., Order, Alicante

PIMENTO—750 bgs., Order, Kingston; 200 cs., Order, Valencia; 6 cs., Gillespie & Co., Port Morant

PITCH—108 bbls., Imperial Bk. of Canada, Genoa; **Stearine**, 107 bbls., Fuerst Bros., Rotterdam

POTASSIUM SALTS—68 cks., Goldschmidt Corp., Hamburg; 18 cks., A. Klipstein & Co., Hamburg; 72 bbls., Roessler & Hasslacher Chem. Co., Hamburg; **Alum**, 250 bbls., E. Suter & Co., Hamburg; 100 cks., Order, Hamburg; 250 cks., A. Klipstein & Co., Rotterdam; 252 cks., Superfos Co., Rotterdam; **Bicarbonate**, 100 cks., Brown Bros. & Co., Rotterdam; 20 cks., Lo Curto & Funk, Rotterdam; 4 cks., Order, Rotterdam; **Caustic**, 170 drs., Interntl. Acceptance Bk., Hamburg; 35 drs., Amer. Exch. Nat. Bk., Hamburg; 101 drs., Roessler & Hasslacher Chem. Co., Hamburg; **Chlorate**, 300 cks., E. Suter & Co., Hamburg; 100 bbls., Brown Bros. & Co., Hamburg; **Hydrate**, 62 bbls., Brown Bros. & Co., Hamburg; **Nitrate**, 1,016 bgs., Kuttroff Pickhardt & Co., Rotterdam; 1,016 bgs., Order, Hamburg; **Prussiate**, 4 cks., Order, Rotterdam; **Sulfate**, 18 bbls., Roessler & Hasslacher Chem. Co., Hamburg

PYRIDINE—26 bbls., E. Suter & Co., Hamburg; **Base**, 18 cks., F. W. Kurtz & Co., Hamburg

QUICKSILVER—150 flasks, Order, Genoa; 17 flasks, G. Ramos, Tampico; 52 flasks, Order, Tampico

ROOT—3 bbls., Order, Hamburg; 20 bgs., Order, Liverpool; **Althea**, 10 cs., Order, Leghorn; **Gentian**, 13 bbls., Nickels Rowland & Co., Marseilles; **Ipecac**, 27 bbls., Gaston & Co., Montevideo; **Logwood**, 780 tons, Stamford Dyewood Co., St. Marc; **Orris**, 73 bgs., Order, Leghorn; **Sarsaparilla**, 55 bbls., M. G. Jaurequi, Tampico; 14 bbls., V. Cairo Co., Tampico; 11 bbls., Otto Gerdan Co., Cristobal; 10 bbls., Eggers & Heinlein, Puerto Cortez

SAL AMMONIAC—55 cks., Seaboard Nat. Bk., Hamburg; 20 cks., Order, Hamburg; 156 bbls., Roessler & Hasslacher Chem. Co., Hamburg; 83 cks., Order, Liverpool

SEEDS—Anise, 100 bgs., Order, Malaga; **Caraway**, 50 bgs., Archibald & Lewis, Rotterdam; 50 bgs., C. E. Armstrong, Rotterdam; **Canary**, 100 bgs., Order, Malaga; **Flax**, 14,324 bgs., Bingham & Co., Buenos Aires; 54,164 bgs., L. Dreyfus & Co., Buenos Aires; **Poppy**, 100 bgs., Order, Rotterdam; **Rape**, 100 bgs., Order, Rotterdam; 50 bgs., I. L. Radwaner Seed Co., Liverpool

SHELLAC—75 bgs., Ralli Bros., Liverpool; **Garnet**, 65 bgs., Irving Bk., Hamburg; 32 bgs., Irving Bk., Hamburg

SOAP—25 cs., F. Martin, Seville; 100 cs., East River Nat. Bk., Genoa; 3 cks., Duager Shpg. Co., Hamburg; 205 cs., Equit. Trust Co., Barcelona; 24 cs., Order, London

SODIUM SALTS—Cyanide, 830 cs., Roessler & Hasslacher Chem. Co., Hamburg; 224 drs., Order, Liverpool; 112 cs., Intern. Bkg. Corp., Havre; **Fluoride**, 15 cks., A. Klipstein & Co., Hamburg; **Hyposulfite**, 200 kgs., Order, Hamburg; **Nitrate**, 114 cks., Order, Liverpool; 4,217 bgs., Antony Gibb & Co., Antofagasta; 21,838 bgs., Wessel Duval & Co., Iquique; 10,772 bgs., E. I. du Pont de Nemours & Co., Iquique; 25 cks., Kuttroff Pickhardt & Co., Rotterdam; 87 cks., E. I. du Pont de Nemours & Co., Christiania; 45 cks., Innis Speiden & Co., Christiania;

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Nitrite, 100 cks., Order, Hamburg; 100 bbls., E. Suter & Co., Hamburg; **Phosphate**, 81 cks., Roessler & Hasslacher Chem. Co., Rotterdam; **Prussiate**, 24 cks., Meteor Products Co., Rotterdam; 15 cks., H. Kohnstamm & Co., Rotterdam; 27 cks., Order, Rotterdam; 23 cks., C. Tennant & Sons, Liverpool; **Silico Fluoride**, 204 bbls., Order, Copenhagen; **Sulfate**, 92 drs., A. Klipstein & Co., Rotterdam; **Sulfate**, 37 drs., C. S. Grant & Co., Hamburg.

TALC—250 cks., L. A. Salomon & Bros., Genoa; 500 cks., Coty, Inc., Genoa; 20 cks., C. Mathieu, Genoa; 1,500 cks., Ital. Disc. & Trust Co., Genoa; 300 bgs., C. Mathieu, Genoa; 200 bgs., Order, Genoa.

TARTAR—416 bgs., Tartar Chem. Wks., Alicante; **Cream**, 50 cks., Order, Marseilles.

TEA WASTE—788 bgs., Nat. City Bk., London; 6 bgs., Order, London.

TETRACHLORETHANE—80 drs., Roessler & Hasslacher Chem. Co., Hamburg.

UMBER—Burnt Terra, 1,729 bgs., Reichard Coulston, Inc., Larnaca; **Raw Terra**, 280 bgs., J. Lee Smith & Co., Larnaca.

VALONIA—719 bgs., Order, Smyrna; 735 bgs., Order, Constantinople; **Beard**, 1,490 bgs., J. A. Barkey & Co., Chanak; **Mixture**, 11,600 bgs., J. A. Barkey & Co., Chanak; 733 bgs., Order, Chanak.

VANILLA BEANS—20 cs., Thurston & Braidich, Vera Cruz; 30 cs., Dodge & Olcott Co., Vera Cruz; 4 cs., J. M. Lambert Co., Vera Cruz; 18 cs., Gomez & Sloan, Vera Cruz; 107 cs., Order, Havre; 29 cs., G. Lueders & Co., Havre.

WAX—487 blocks, Irving Bk.-Columbia Trust Co., Lisbon; 27 bgs., Order, London; 5 bgs., Order, London; **Bees**, 14 bbls., V. D. Steingrafe, Rio de Janeiro; 99 bgs., Equit. Trust Co., Hamburg; 23 bgs., Galban & Co., Manzanillo; 50 bgs., Order, Havana; **Carnauba**, 40 bgs., Order, Rio de Janeiro; **Mineral**, 25 bgs., L. S. Tainter, Hamburg; **Paraffin**, 2,800 bgs., Asiatic Petroleum Co., London; 320 bgs., Order, Havre.

WOOL GREASE—130 cks., Pfaltz & Bauer, Bremen; 80 bbls., W. Schall & Co., Bremen.

ZINC-Oxide, 50 bbls., Reichard Coulston, Inc., Antwerp; **White**, 10 cks., Order, Hamburg.

IMPORTS AT BALTIMORE

May 22 to 28

CHROME ORE—4,000 tons, Norton, Lilly & Co., Crosby Hall, Beira.

FERRO-MANGANESE—83 tons, 78%, Crocker Bros., New York, Barrymore, Liverpool.

GLUE—200 bgs., 11,000 lbs., Island Petroleum Co., Emden, Hamburg.

HAARLEM OIL—70 cases, W. H. Crawford Co., Bolderdijk, Rotterdam.

MANGANESE ORE—8,000 tons, Bethlehem Steel Co., Maria Enrica, Poti; 6,400 tons, United States Steel Products Co., Dovenby Hall, Rio de Janeiro.

MOLASSES—1,500 000 gals., Cuba Distilling Co., Catahoula, Metanzas.

PALM OIL—78 casks, 100,000 lbs., John S. Connor, Emden, Hamburg.

POTASH-Manure Salt, 115,760 lbs., F. H. Shallus Co., Emden, Hamburg.

SEED-Mustard, 250 sacks, 25 tons, McCormick & Co., City of Flint, Hull.

WOOL GREASE—200 casks, 90,000 lbs., Kidder, Peabody Acceptance Corp., Emden, Hamburg.

IMPORTS AT SAN FRANCISCO

May 17 to 24

ACID—340 cases, Pacific-Orient Co., Kobe.

AGAR AGAR—15 bales, Willits & Co., Kobe.

ANTIMONY-Regulus, 250 cases, Great Western Smelting & Refining Co., Shanghai.

ARSENIC—400 cases, Order, Kobe; 300 cases, McGreger, Lingdon & Marr, Kobe; 390 cases, Italian American Bank, Kobe; 200 cases, Hale & Co., Kobe; 200 cases, Pacific-Orient Co., Osaka.

ALBUMEN—15 cases, Henry W. Peabody & Co., Shanghai.

BEAN CAKE—1,132 bags, Order, Dairen.

FLOWERS-Pyrethrum, 10 bales, Order, Kobe.

OIL-Eucalyptus, 30 cases, Order, Melbourne; **Perilla**, 350 barrels, Order, Osaka.

PARAFFINE—5,600 bgs., Shell Oil Co. of California, Balikpapan.

SEED-Palm, 19 cases, Hoyt, Shepstin & Sciaroni.

VANILLA BEANS—49 cases, Order, Papeete.

IMPORTS AT PHILADELPHIA

May 24 to 31

ACID-Formic, 50 carboys, International Acceptance Bank, Hamburg.

BARK-Soap, 200 bbls., McLivaine Bros., Hamburg.

FLUORSPAR—510 tons, General Chemical Co., Beira.

LIME—200 bags, Order, Bristol.

OIL-Palm, 274 cks., African Eastern Trading Co., Hamburg; 71 cks., Order, Liverpool.

POTASSIUM-Chloride, 250 kgs., Order, Hamburg.

PYRODINE—18 bbls., Order, Hamburg.

ROOT-Dandelion, 12 bags, Phila. Nat. Bank, London.

SALT—127,000 kilos, Corn Exchange Nat. Bk., Hamburg.

SODIUM-Cyanide, 100 drums, Park Chem. Co., Liverpool.

IMPORTS AT NEW ORLEANS

May 23 to 30

CALCIUM-Chloride, 984 tons, Order, Norway.

FULLER'S EARTH—1,499 bags, Order, London.

GUM-Chicle, 25 bales, Order, Progresso.

SEEDS-Poppy, 551 lbs., Order, Holland; **Saffron**, 51 lbs., Order, Cuba.

SODIUM-Cyanide, 6,720 lbs., Order, England; **Nitrate**, 47,483 bags, W. R. Grace & Co., Iquique.

IMPORTS AT BOSTON

May 24 to 31

CHALK—500 tons, Stickney & Tirrel, London; 1,220 bags, Plymouth Rock Paint Co., Antwerp.

EPSOM SALTS—500 bags, Order, Hamburg.

FULLER'S EARTH—200 bags, L. Salomon & Bros., Hamburg.

LITHOPONE—180 casks, A. Klipstein & Co., Antwerp.

POTASH-Caustic, 200 bbls., Order, Antwerp; 175 drums, Order, Hamburg.

SHELLAC—100 bags, Order, Calcutta; 50 bags, Order, London.

STARCH-Potato, 750 bags, E. J. Klupfkens, Antwerp.

WOOL GREASE—1,500 bbls., Order, Bremen.

ZINC-Oxide, 100 bbls., East King Co., Antwerp.

Books Reviewed

THE TECHNICAL ORGANIZATION. By John Morris Weiss and Charles Raymond Downs. First Edition. 192 pages, 8vo. McGraw-Hill Book Co., New York. 1924.

The authors have attempted to describe to the employer the necessity for a patient and delightful scientific attack on his problems, and to the employee the necessity of ethical conduct, a plea for mutual esteem and co-operation and to lay out a program to assist both in the organization of technical development.

THE ETHICS OF OPIUM. By Ellen N. La Motte. 204 pages, 8vo. The Century Co., New York. 1924.

The introductory chapters treat of the World's Drug Problem, giving the Hague opium convention in detail. The book is a mass of evidence, which tends to show that no sincere effort has been put forth on the part of commercially interested powers to prevent the traffic in opium.

SOLUBILITY. By Joel H. Hildebrand, Ph.D., of University of California. 197 pages, 8vo. The Chemical Catalog Co., New York. 1924.

The author has had a two fold purpose, first to make available for the use of chemical companies confronted with practical difficulties the means for their solution, and second, the present the subject as an inviting field for research.

COLLOID CHEMISTRY. By The Svedberg of University of Wisconsin. 257 pages, 8vo. Illustrated. The Chemical Catalog Co., New York. 1924.

The text of the monograph is based upon a series of lectures given at the University of Wisconsin. The

author believes that a real advance in colloid chemistry is possible only by developing methods of accurate measurements for the study of colloids. By purely qualitative experiments more confusion than progress has been obtained.

INCREASING DIRECT ADVERTISING RETURNS. By Flint McNaughton. 208 pages, 8vo. Selling Aid, Chicago. 1923.

This book presents a comprehensive analysis of plans and practices for increasing direct returns in connection with advertising through return post cards, coupons, order blanks, dealer hookups, and other direct return devices.

ANALYTICAL CHEMISTRY. By F. P. Treadwell, Late Professor of Analytical Chemistry at the Polytechnic Institute of Zurich. Translated by William T. Hall, of Massachusetts Institute of Technology. Sixth Edition. Volume II. Quantitative Analysis. 756 pages, 8vo. John Wiley & Sons, New York. 1924.

The methods described are the same as those given in the tenth edition of the German text, but at least twenty per cent of the book is unlike the German text. The aim has been to make the methods conform to the best American practice. This is true particularly with regard to standards of mass and volume. As far as possible the work of the German testing bureaus has been replaced by results published by the Bureau of Standards at Washington, D. C.

CHARTS OF THE CHEMICAL REACTIONS OF THE COMMON ELEMENTS. By John A. Timm, Ph.D., Instructor in Chemistry, Yale University. 81 pages, 8vo. John Wiley & Sons, New York. 1924.

The author hopes that these charts can be used as a source of information to which the reader may refer when new and unfamiliar reactions come to his attention.

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DETAIL MEN—Pharmaceutical manufacturer will require the services of several detail men of high grade beginning August 1st. Medical training strongly preferred—a dignified, pleasant personality absolutely requisite. These positions offer an opportunity to join a large growing organization in a permanent capacity. Box 741, **DRUG & CHEMICAL MARKETS**.

COLORIST—Practical man with technical training and strong personality wanted as adviser and assistant to salesmen. Please write fully on experience, nationality, salary expected. Box 753, **DRUG & CHEMICAL MARKETS**.

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From the OLD HICKORY POWDER PLANT

- 12 Kellogg Hammer Welded Steel Autoclaves, 300 lbs. working pressure.
- 4 No. 51 Stokes dryers with condensers, cast iron double wall.
- 500 Steel tanks, 100 to 55,000 gal., $\frac{1}{8}$ " to $\frac{3}{8}$ " plates. Write for Bulletin No. 7.
- 2 36" x 24" x 96" American Kinyoun-Francis Steam and Formaldehyde disinfectors.
- 1000 Tons Duriron pipe, fittings and tower sections. Write for Bulletin No. 14.
- 8 6,000 lb. Catenary type Nitric Acid retorts. 8' inside dia., 9' inside depth. Equipped with covers.

Bulletin No. 8 General Equipment

Bulletin No. 20 Platform Scales

Write for prices and specifications.

NASHVILLE INDUSTRIAL CORP.
 OLD HICKORY, TENNESSEE

HELP WANTED

LABORATORY HELPER—Fatty oil chemist has place in his consulting and analytical laboratory during the summer vacation periods for a college student with at least two years chemistry. Pay is small, but experience is varied and work holds opportunity to learn practical laboratory methods and technique, and the possibility of a permanent position after graduation. Box 754, DRUG & CHEMICAL MARKETS.

DRUG SALESMEN—We want live young men calling on wholesale and retail drug trade to carry a quick sale, big commission sundry as a side line. Box 755, DRUG & CHEMICAL MARKETS.

PHARMACEUTICAL SALESMAN—Familiar with retail drug trade on the Pacific Coast north of San Francisco wanted by a large manufacturer. Please give full details and references, if possible, in first letter. Confidential. Box 743, DRUG & CHEMICAL MARKETS.

SALESMAN—Experienced in selling drugs, chemicals and sundries. Must be acquainted with retail drug trade in Ohio, Indiana, Kentucky or Tennessee. Write fully giving age, experience, salary expected and territory you cover. Address P. O. Box 67, Station V, Cincinnati, Ohio.

HELP WANTED

WANTED—Salesman familiar with importing business in Drug and Chemical lines to represent us selling to manufacturers and jobbers in Central West territory. Must have had experience in this line and have highest references as to character and sales ability. Correspondence confidential. Box 734, DRUG & CHEMICAL MARKETS.

A MANUFACTURER of international reputation will employ a graduate chemist. He must be about thirty and have had at least five years' practical experience in inorganic analysis and research. If he is not a pharmacist he must be willing to pursue the necessary studies for a degree. The position offered is permanent and promises a good future for a man capable of honest hard work and original thought. Give full details of your training, experience, employment and salary in your first letter. Box 733, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

FOR SALE—Four barrels Chinawood Oil drainings, price very reasonable. Also 3 barrels Coconut Oil drainings. Box 746, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

WANTED—200 mesh German Magnesium Powder. Must be German. Box 718, DRUG & CHEMICAL MARKETS.

FOR SALE—A large quantity of Technical Sodium Oxalate at a bargain. Also 14 barrels of Sodium Bisulphite 38% slightly caked. Box 750, DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

WANTED—A buyer for surplus stock 2 oz., 4 oz. and 8 oz. round amber bottles. Kork-N-Seal finish (about 1,000 gross). Sherwin-Williams Co., 601 Canal Road, N. W., Cleveland, Ohio.

TANK CARS for rent, 6800 to 7200 gals., 50 ton capacity. Receivers Butterworth-Judson Corp., Newark, N. J.

MISCELLANEOUS

ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.

What is said of our Services!

Messrs. Gebr. Waaning Tilly, from Haarlem (Holland) write to us on the 23rd of October, 1922:—

"We received through our Agents, the Registered Deed of the declaration of ownership of our Trade Mark and Proprietary Name, and are pleased to inform you that the same has been found correct and the work done by you to our entire satisfaction.

"If any of our friends should be desirous of having his trademark also registered in India, we shall certainly recommend him your firm."

The Huntley Manufacturing Co., from Silver Creek, N. Y., U. S. A., write to us on the 5th of January, 1923:—

"We wish to thank you for the manner in which you have handled this and if there is any further business of this nature at any time that you can attend to, we will be glad to place it in your hands."

Messrs. Max Dörner G. m. b. H., from Solingen (Germany) write to us on the 25th of January, 1923:—

"Please note that we are satisfied by your work, and that further registrations will also be trusted to you."

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Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

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Chilean Nitrate Committee
Church & Dwight
The Cleveland-Cliffs Iron Co.
Commercial Solvents Corp.
Chas. Cooper & Co.
Diamond Alkali Co.
The Dow Chemical Co.
E. I. du Pont de Nemours & Co.
Ellis Jackson & Co.
General Chemical Co.
Grasselli Chemical Co.
W. F. George Chemicals, Inc.
Wm. S. Gray & Co.
R. W. Greeff & Co.
Harshaw, Fuller & Goodwin Co.
Industrial Chemical Co.
Innis, Speiden & Co.
International Salt Co.
Jayne & Sidebottom, Inc.

A. Klipstein & Co.
Chas. Lennig & Co., Inc.
Mathieson Alkali Works, Inc.
Michigan Alkali Co.
The Miner-Edgar Co.
Monsanto Chemical Works
The New Brunswick Chem. Co.
Henry W. Peabody & Co.
Norvell Chem. Corp.
J. L. Philippeau
Pfaltz & Bauer
A. P. Rippenbein
Roessler & Hasslacher Chem.
Rohm & Haas Co.
Seaboard Chemical Co.
E. M. Sergeant Co.
Solway Process Co.
Sterling Borax Co.
Eugene Suter & Co.
C. Tennant Sons & Co.
Victor Chemical Works
The Warner Chemical Co.
Wing & Evans, Inc.
Isaac Winkler & Bro. Co.
Wishnick-Tumpeier Chemical Co.

FINE CHEMICALS

Abbott Laboratories
The B. & W. Co.
Baird & McGuire
J. T. Baker Chemical Co.
W. Benkert & Co.
David Berg Industrial Alcohol Co.
Carbide & Carbon Chem. Corp.
Carus Chem. Co.
Chemical Works "Naarden"
Antoine Chiris Co.
Commercial Solvents Corp.
Commonwealth Chemical Corp.
Charles Cooper & Co.
Darco Sales Corp.
The Dow Chemical Co.
Eastman Kodak Co.
Electro Bleaching Gas Co.
The Federal Products Co.
E. Fongers & Co.
The Fries & Fries Co.
Fritzsche Bros., Inc.
William S. Gray & Co.
Harshaw, Fuller & Goodwin Co.
Hoffman-LaRoche Chem. Wks.
The Ideal Distillery
Industrial Chemical Co.

International Salt Co.
Jayne & Sidebottom, Inc.
A. Klipstein & Co.
P. Lodge & Co.
Magnus, Mabee & Reynard, Inc.
Mallinckrodt Chemical Works
Mathieson Alkali Wks., Inc.
May & Baker
Merck & Co.
H. A. Metz & Co.
The Miner-Edgar Co.
Monsanto Chemical Works
N. Y. Quinine & Chem. Works
The Norvell Chemical Corp.
Pfaltz & Bauer
Powers-Weightman-Rosengarten
B. Presman Company
Roessler & Hasslacher Chem. Co.
Rhodia Chem. Co.
Sterling Borax Co.
Eugene Suter & Co.
Geo. Uhe
U. S. Industrial Chemical Co.
Victor Chemical Works
Victor & Hosken
Wishnick-Tumpeier Chemical Co.

DYESTUFFS

Cable Chem. Works
Calco Chemical Co.
John Campbell & Co.
Central Dyestuff & Chem. Co.
Dow Chemical Co.
Dye Products & Chem. Co.
E. I. du Pont de Nemours & Co.
Ellis Jackson & Co.
A. Klipstein & Co.

Grasselli Chemical Co.
The Heller & Merz Co.
H. A. Metz & Co.
National Aniline & Chemical Co.
The New Brunswick Chem. Co.
Newport Chemical Works
The White Tar Aniline Co.
Wishnick-Tumpeier Chemical Co.

COAL TAR PRODUCTS

Abbott Laboratories
American-British Chem. Supplies
Baird & McGuire
The Barrett Co.
Calco Chemical Co.
John Campbell & Co.
Dovan Chemical Co.
E. I. du Pont de Nemours & Co.
Dye Products & Chem. Co.
The Heller & Merz Co.
Hydrocarbon Prods. Co.

Jordan Coal Tar Products Co.
A. Klipstein & Co.
H. A. Metz & Co.
Monsanto Chemical Works
National Aniline & Chemical Co.
Newport Chemical Works
The Norvell Chemical Corp.
Weiss & Downs
The White Tar Aniline Co.
Wolff-Alport Chem. Corp.

ESSENTIAL OILS

M. L. Barrett & Co.
Belgian Trading Co.
W. J. Bush & Co.
Antoine Chiris Co.
The Fries & Fries Co.
Fritzsche Bros., Inc.
The Ideal Distillery

Magnus, Mabee & Reynard, Inc.
Morana, Incorporated
Pfaltz & Bauer, Inc.
Smith, Stanistreet & Co.
Geo. Uhe
Ungerer & Co.
Victor & Hosken

CRUDE DRUGS

W. J. Bush & Co.
Hoffmann-LaRoche Chem. Wks.
M. L. Barrett & Co.

H. R. Lathrop & Co.
Magnus, Mabee & Reynard, Inc.
B. Presman Company
Smith, Stanistreet & Co.

EQUIPMENT

The Corboy Co.
Nashville Industrial Corp.

Steel Drum & Barrel Co.

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we produce many coal tar chemicals and intermediates. These we offer for sale in the same high quality standards that have given our colors their superior reputation. We are headquarters for the following and we solicit inquiries for others not listed:

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Para Nitro Toluol	Dianisidine
Ortho Toluidine	Tolidine Base
Ortho Anisidine	Gamma Acid
Para Toluidine	Cleves Acid
Meta Phenylene Diamine	
Meta Toluylene Diamine	
Alpha Naphthylamine	
Sodium Naphthionate	
Flotation Reagents	



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CARBON DIOXIDE	ISOBUTYL ALCOHOL
ETHER, ABSOLUTE	ISOPROPYL ALCOHOL
ETHER, ANESTHESIA	IODINE, DISTILLED
ETHER, U. S. P.	NORMAL PROPYL ALCOHOL
ETHYL ACETATE	POTASH SALTS
ETHYL ACETO-ACETATE	POTASSIUM IODIDE
ETHYL ALCOHOL, ABSOLUTE	REFINED FUSEL OIL
ETHYL ALCOHOL, C. P. 96%	SPECIAL ESTERS
ETHYL FORMATE	TINCTURE IODINE
AMYL ALCOHOL	

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Strontium Nitrate—
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In a recent edition of one of the trade papers an editorial on the above subject quoted part of a report on market conditions read at a recent meeting of the American Drug Manufacturers' Association. While addressed primarily to the drug trade it applies with equal force to the chemical industry, particularly to consumers of chemicals. It is a crystallization of the sentiments of representative men in this great field—and as such is a warning which may well be heeded by all who have the best interests of trade at heart.

"During such a transition period as we are now passing through the wise buyer is very watchful of his sources of supply. Not only is it foolish to be 'penny wise' in your purchases; but it is also foresighted to throw the weight of your buying support on the side of those suppliers who render the entire drug trade a real service and whose goods you can depend upon to be as represented, of standard quality, and sold at fair prices. Now is the time to buy cautiously. And true caution means not necessarily the cheapest price. If you, yourselves, patronize raw material suppliers of a questionable and doubtful type, you materially weaken your own case against the irresponsible, fly-by-night concerns who have entered the pharmaceutical field, since the passage of the Volstead Act."

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42nd Year

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